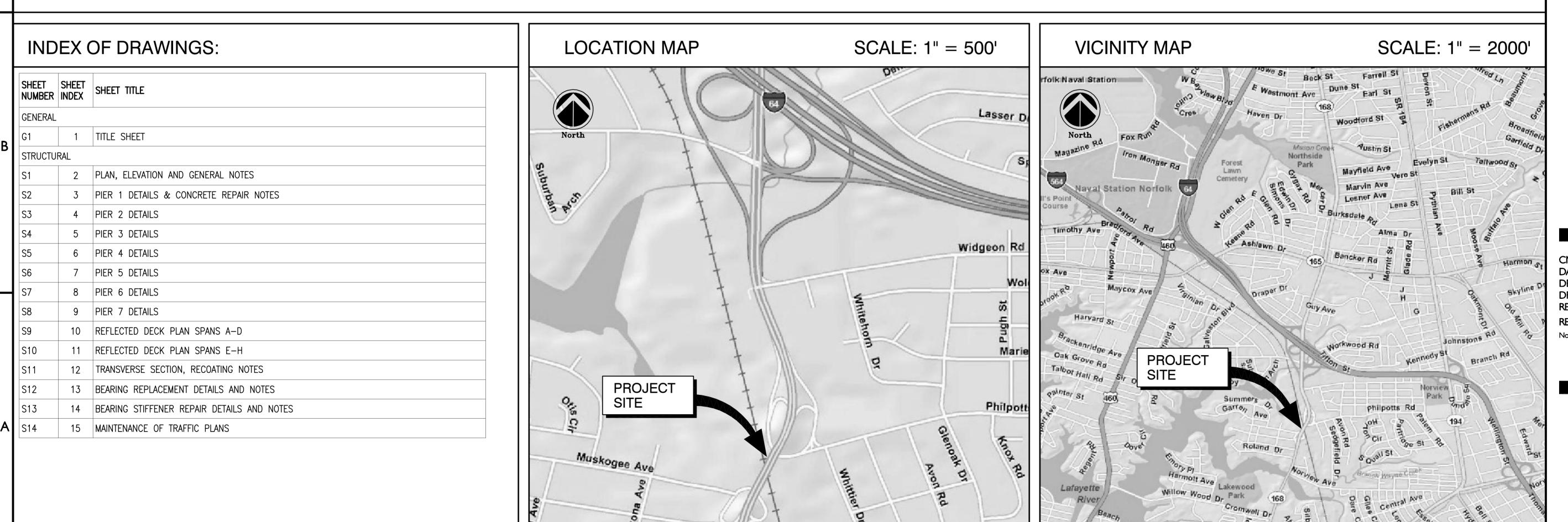
3 4 5

ROLAND PARK OVERPASS REPAIRS

BASE BID DEPARTMENT OF PUBLIC WORKS NORFOLK, VIRGINIA

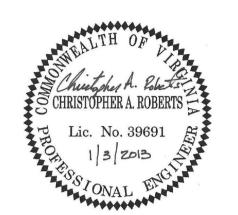


Veaux Look

CLARK NEXSEN

Architecture & Engineering

6160 KEMPSVILLE CIRCL NORFOLK, VIRGINIA 2350 757-455-5800 FAX 757-455-563 WWW.CLARKNEXSEN.COI



ND PARK OVERPASS REPAIRS

CN NO: 4182
DESIGN: EAJ
DRAWN: WBB

REVIEW: CAR
REVISIONS
No. Date Description

TITLE SHEET



STRUCTURE. INCLUDING THE VERIFICATION OF ALL PERTINENT DIMENSIONS BEFORE PROCEEDING WITH

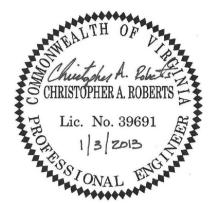
THE WORK. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

CLARK NEXSEN Architecture & Engineering

> 6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502

> > 757·455·5800 FAX 757·455·5638

WWW.CLARKNEXSEN.COM



ERPASS REPAIRS BASE BID DEPARTMENT OF PUR NORFOLK, VIRGINIA

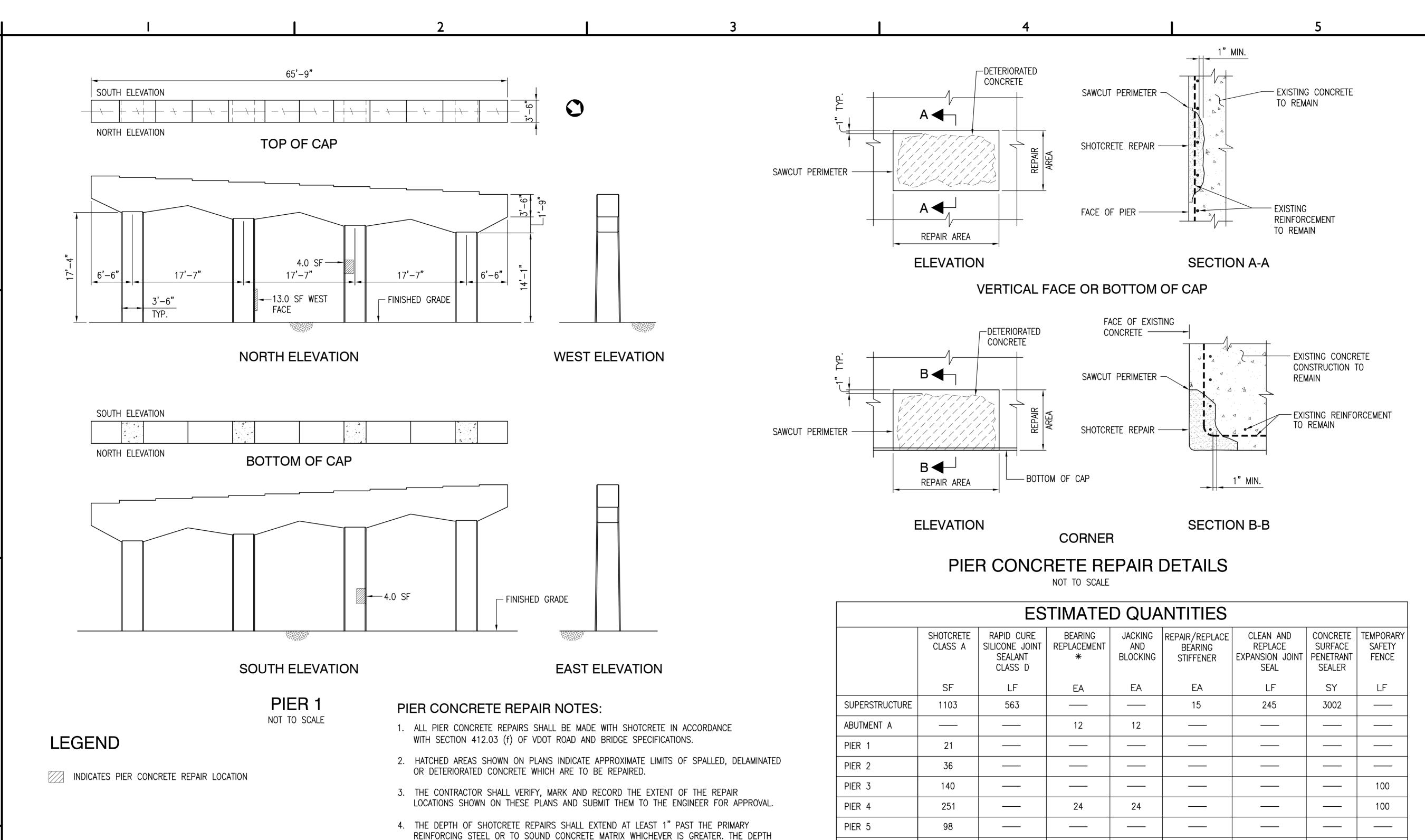
CN NO: 4182 DATE: 01/03/12 DESIGN: EAJ

DRAWN: WBB REVIEW: CAR **REVISIONS**

No. Date

PLAN, ELEVATION AND GENERAL **NOTES**

SHEET 2 OF 15



AND EXTENT OF REPAIRS SHALL BE AS DIRECTED BY THE ENGINEER.

BRIDGE SPECIFICATIONS, AND BE REINFORCED WITH SYNTHETIC FIBERS.

8. FOR LOCATION OF PIER CONCRETE REPAIRS, SEE SHEETS S2 THRU S8.

CONCRETE SURFACES.

BEFORE OVERSPRAY HARDENS.

5. THE PERIMETER OF THE AREAS TO BE REPAIRED SHALL BE SAWCUT 1/2" DEEP MINIMUM.

7. SHOTCRETE PROVIDED SHALL CONFORM TO SECTION 412, CLASS A OF VDOT ROAD AND

9. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF OVERSPRAY AND DUSTING TO SURROUNDING

ELEMENTS OF THE STRUCTURE. ANY ADJACENT SURFACE COVERED SHALL BE CLEANED

6. THE REPAIR SURFACE SHALL HAVE A SPONGE FINISH AND BE FLUSH WITH THE SURROUNDING

PIER 6 16 PIER 7 ____ ____ ABUTMENT B 200 TOTAL 3002 1665 563 48 15 48 245

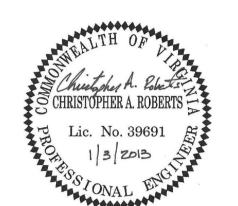
MOBILIZATION - LUMP SUM RECOAT EXISTING STRUCTURE (TYPE B) - LUMP SUM ENVIRONMENTAL PROTECTION AND HEALTH AND SAFETY (TYPE B) - LUMP SUM DISPOSAL OF MATERIAL (TYPE B) - LUMP SUM MAINTENANCE OF TRAFFIC - LUMP SUM

* INCLUDES REMOVAL AND DISPOSAL OF EXISTING BEARING ASSEMBLIES, ANCHOR BOLTS AND INSTALLATION OF NEW BEARING ASSEMBLIES INCLUDING FABRICATED HAUNCH, ELASTOMERIC BEARINGS, SOLE PLATES AND ANCHOR BOLTS AS SHOWN ON THESE PLANS IN ACCORDANCE WITH SECTIONS 408 AND 413 OF THE SPECIFICATIONS. THIS ITEM SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

CLARK+ NEXSEN

Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



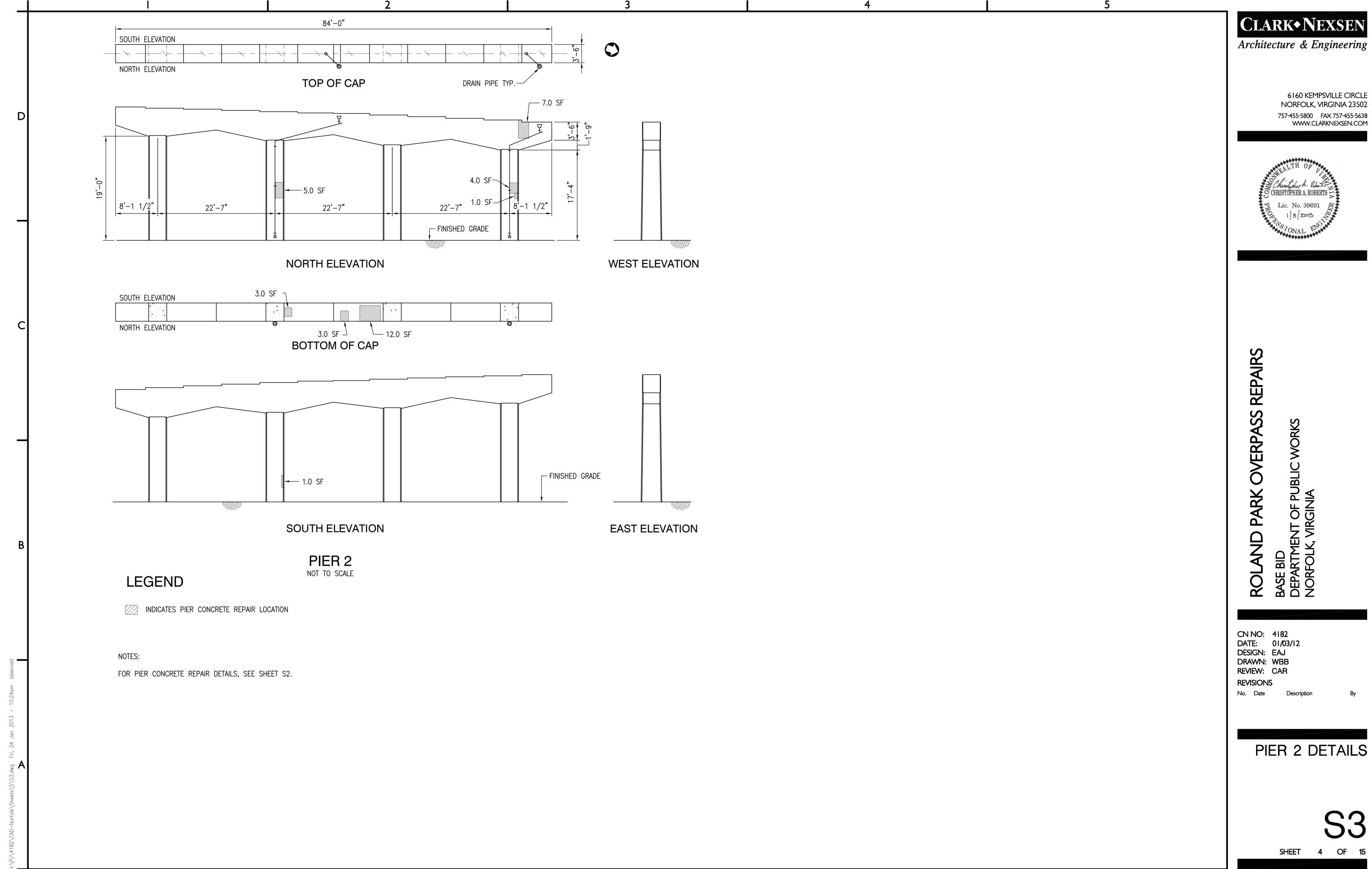
ERPASS REPAIRS BASE BID DEPARTMENT OF PUBLIC V NORFOLK, VIRGINIA

CN NO: 4182 DATE: 01/03/12 DESIGN: EAJ DRAWN: WBB REVIEW: CAR **REVISIONS**

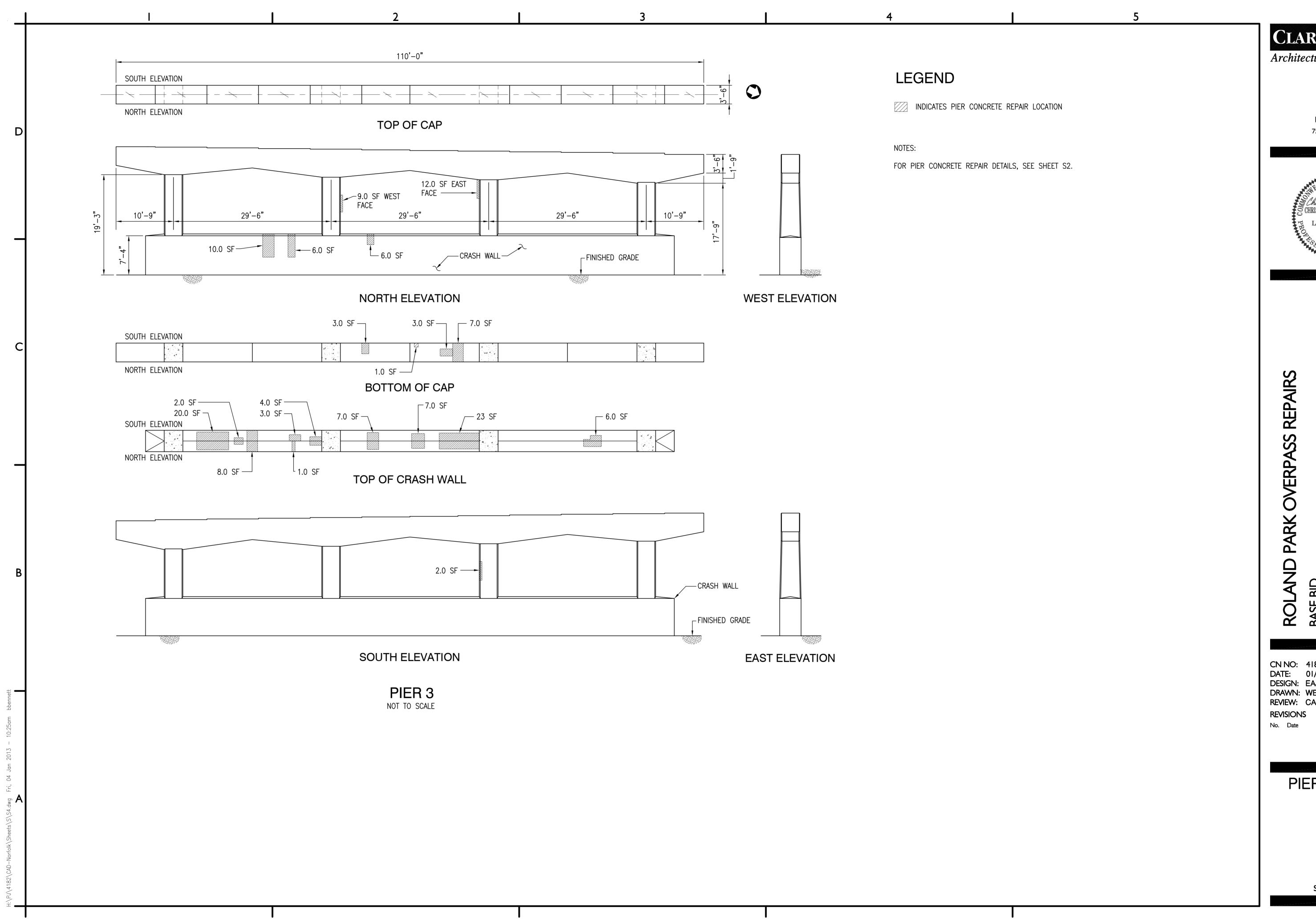
No. Date

PIER 1 DETAILS & CONCRETE

REPAIR NOTES

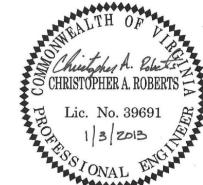


6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757-455-5800 FAX 757-455-5638 WWW.CLARKNEXSEN.COM



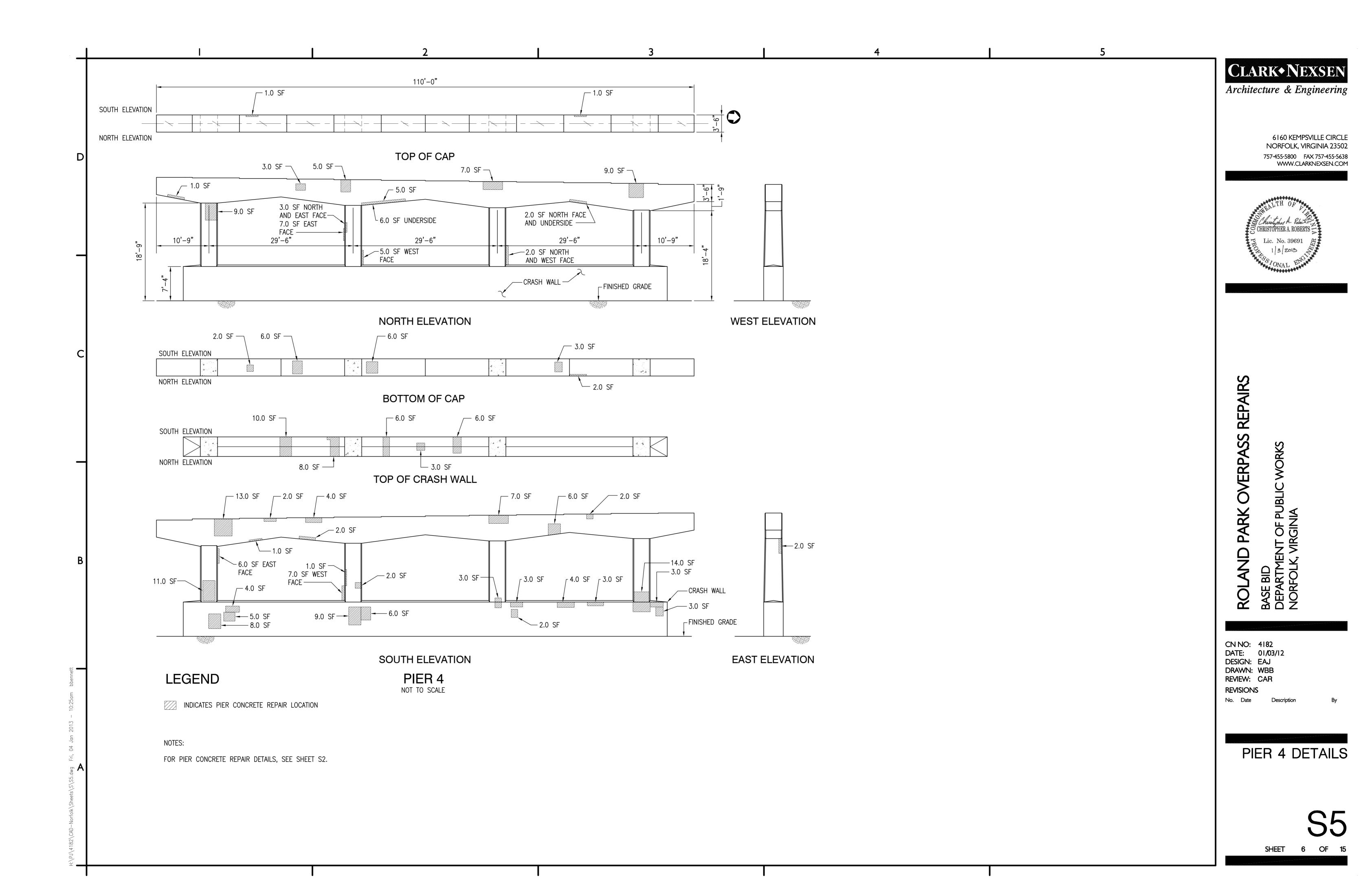
Architecture & Engineering

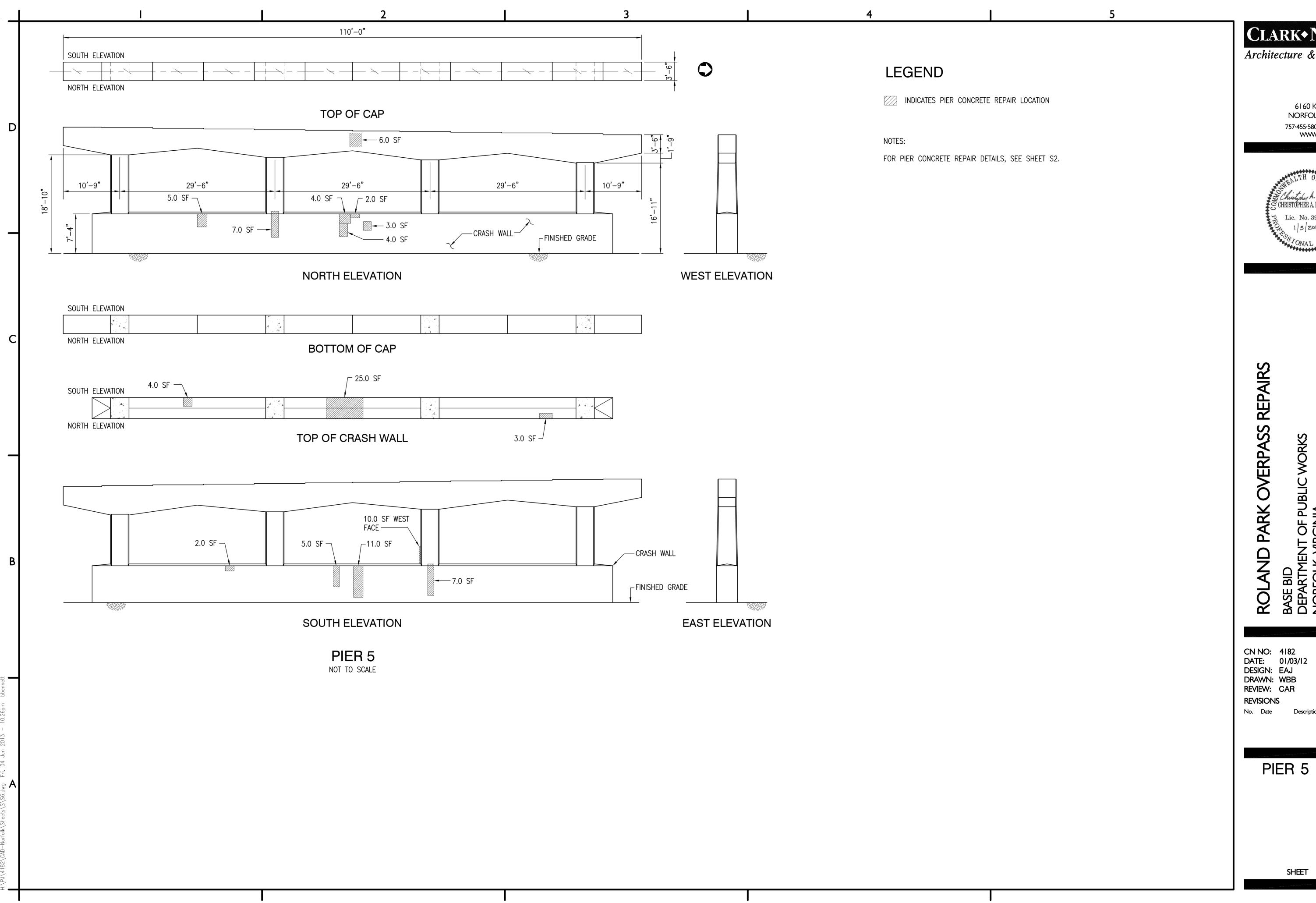
6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757-455-5800 FAX 757-455-5638 WWW.CLARKNEXSEN.COM



CN NO: 4182
DATE: 01/03/12
DESIGN: EAJ
DRAWN: WBB
REVIEW: CAR

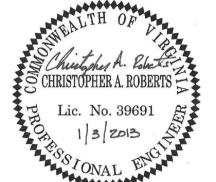
PIER 3 DETAILS



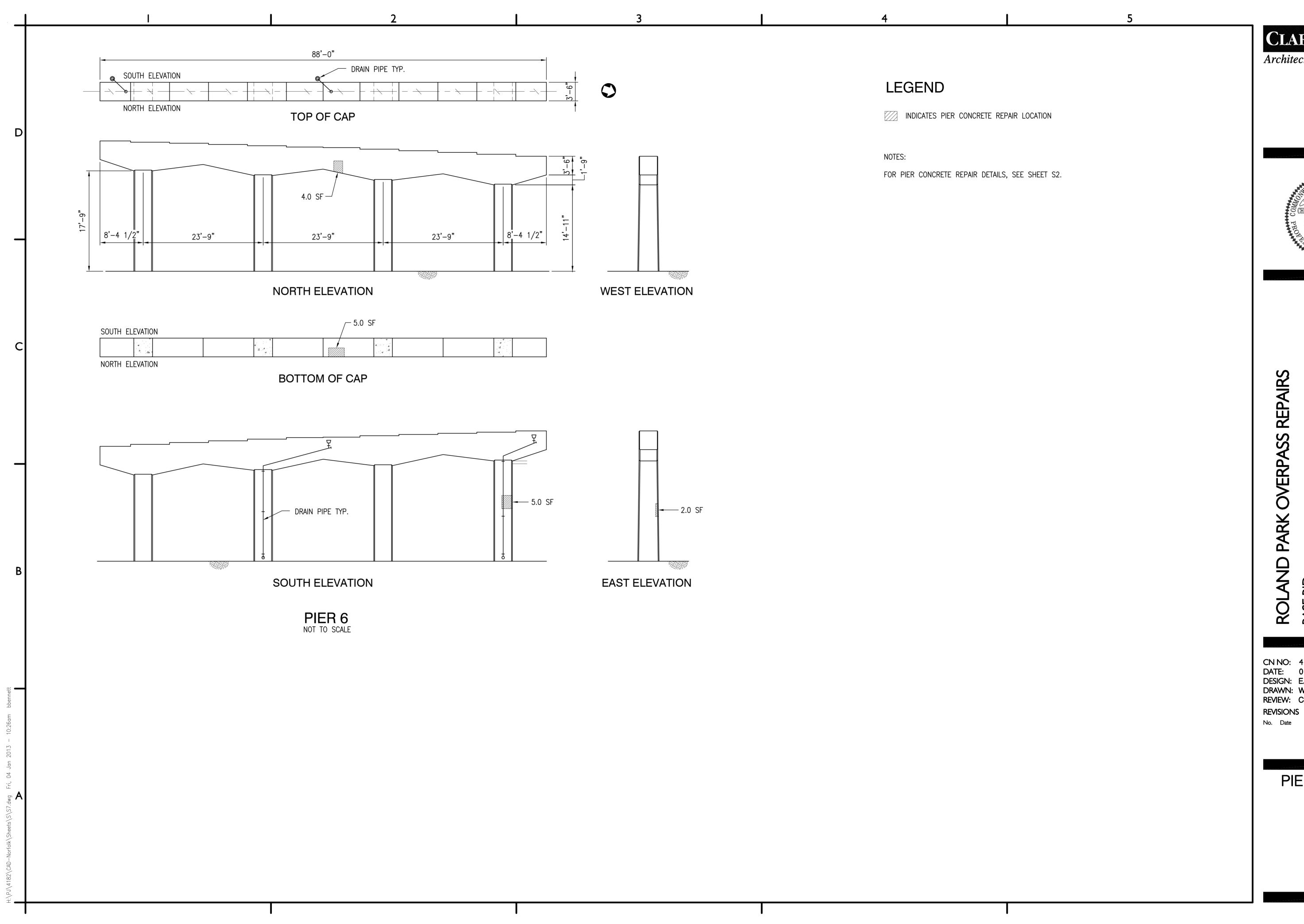


Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757-455-5800 FAX 757-455-5638 WWW.CLARKNEXSEN.COM

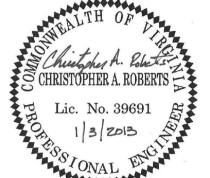


PIER 5 DETAILS



Architecture & Engineering

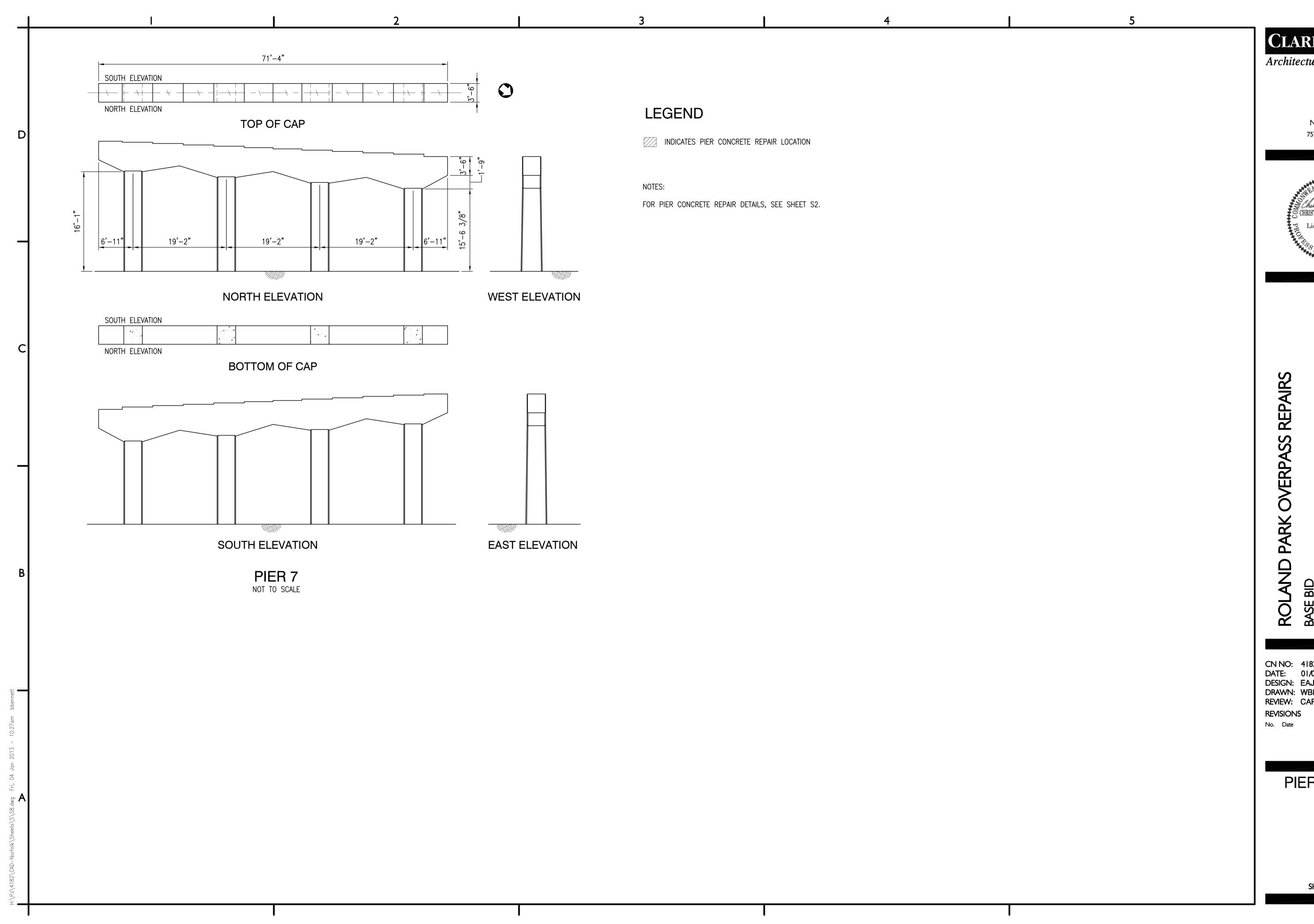
6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757-455-5800 FAX 757-455-5638 WWW.CLARKNEXSEN.COM



ROLAND PARK OVE BASE BID DEPARTMENT OF PUBLIC W NORFOLK, VIRGINIA

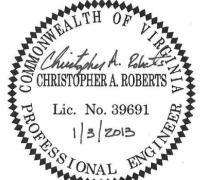
CN NO: 4182
DATE: 01/03/12
DESIGN: EAJ
DRAWN: WBB
REVIEW: CAR

PIER 6 DETAILS



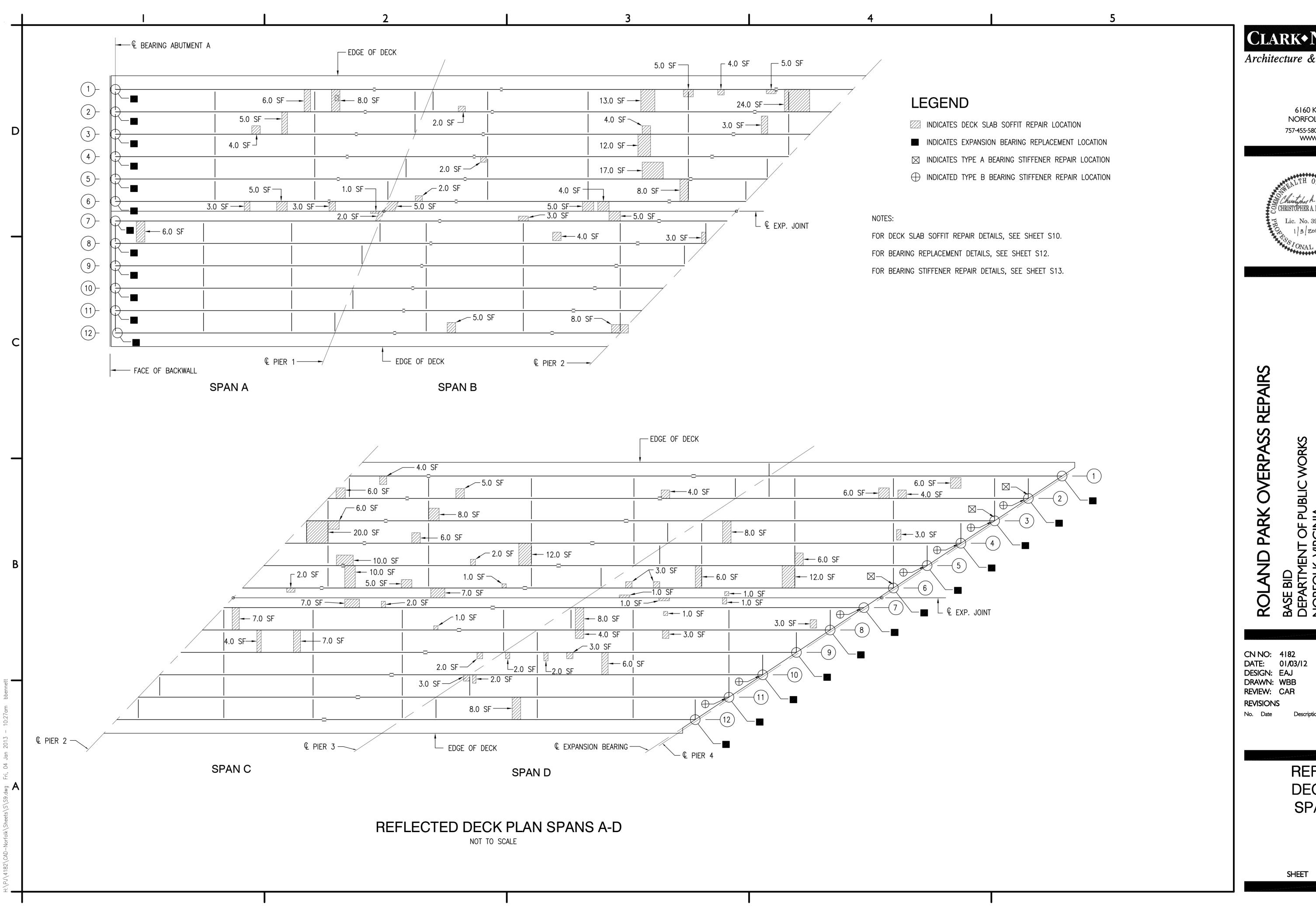
Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757-455-5800 FAX 757-455-5638 WWW.CLARKNEXSEN.COM



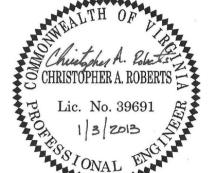
CN NO: 4182
DATE: 01/03/12
DESIGN: EAJ
DRAWN: WBB
REVIEW: CAR

PIER 7 DETAILS

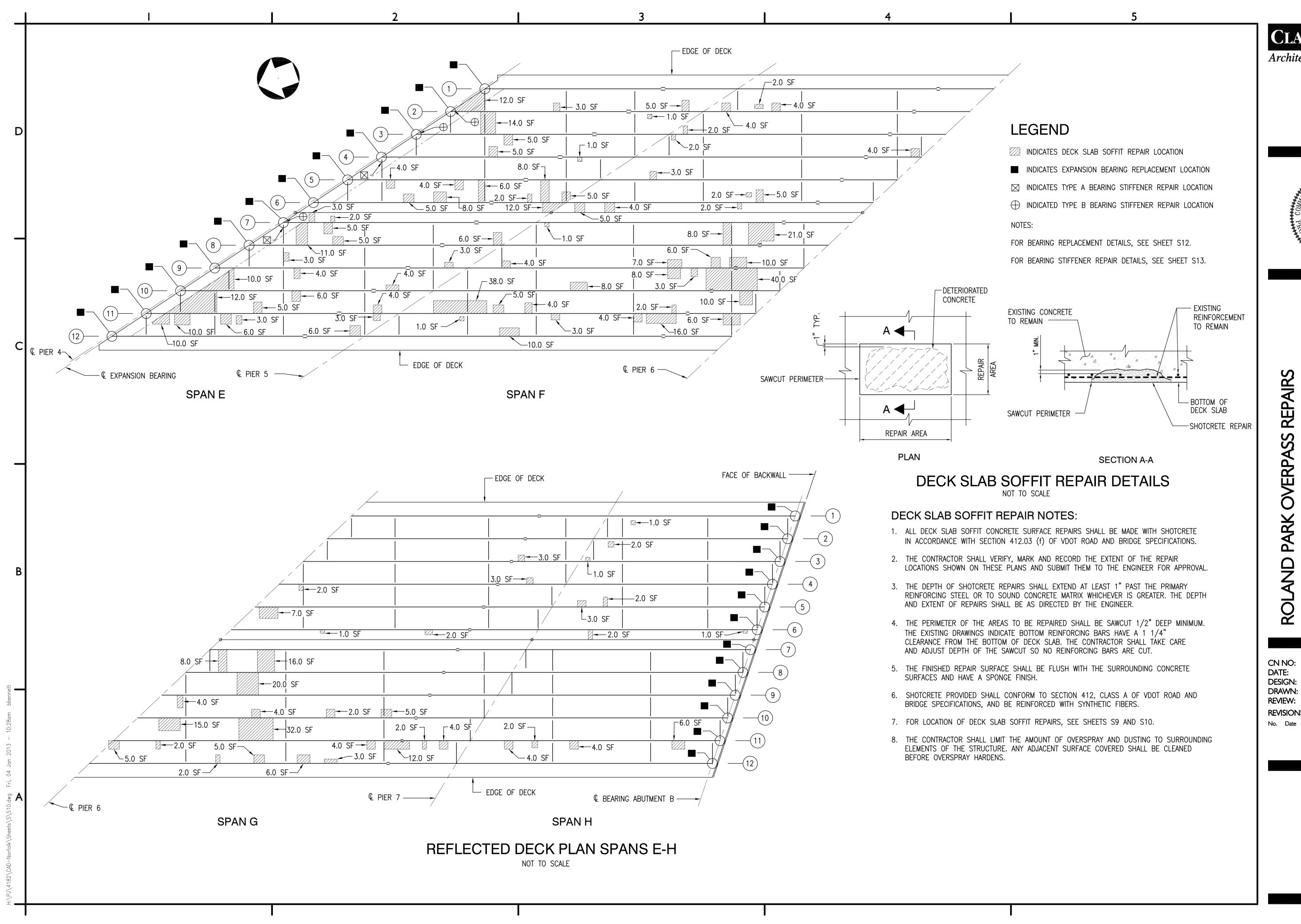


Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM

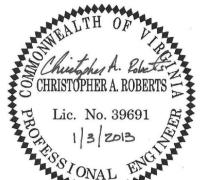


REFLECTED DECK PLAN SPANS A-D



CLARK+ NEXSEN Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM

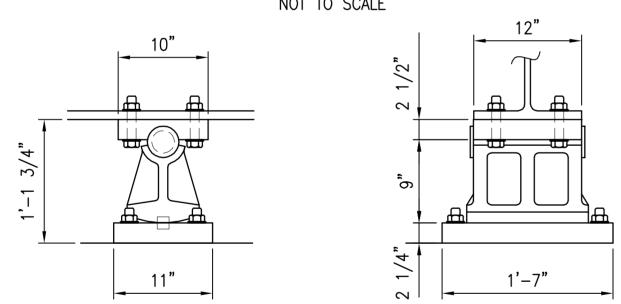


BASE BID DEPARTMENT OF PUBLIC V NORFOLK, VIRGINIA

CN NO: 4182 DATE: 01/03/12 DESIGN: EAJ DRAWN: WBB REVIEW: CAR

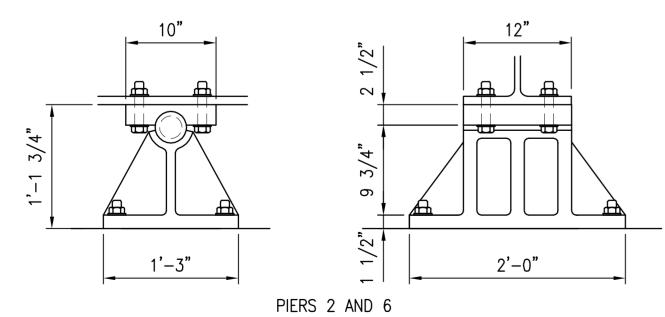
REVISIONS

REFLECTED DECK PLAN SPANS E-H



EXISTING EXPANSION BEARING NOT TO SCALE

PIERS 4, 5 AND 7



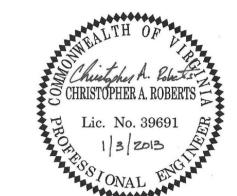
EXISTING FIXED BEARING NOT TO SCALE

- OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH NORFOLK AND SOUTHERN RAILROAD PRIOR TO BEGINNING ANY WORK INSIDE THE RAILROAD RIGHT OF WAY IN ACCORDANCE WITH SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTERESTS..
- 8. THE EXISTING ROADWAYS UNDER THE BRIDGE SHALL REMAIN IN SERVICE DURING THE CLEANING AND RECOATING OPERATIONS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY VEHICLE PROTECTION REQUIRED DURING THE CLEANING AND RECOATING OPERATION. SHOULD THE CONTRACTOR ELECT TO PROVIDE TRAFFIC CONTROL HE SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER.
- 9. THE CONTRACTOR SHALL PROVIDE ALL ENVIRONMENTAL AND WORKER PROTECTION REQUIRED FOR THE STRUCTURE CLEANING AND RECOATING.
- 10. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL MATERIALS FROM THE CLEANING AND RECOATING OPERATIONS.
- 1. THE COLOR OF THE PENETRANT SEALER SHALL BE CLEAR.
- 2. THE PENETRANT SEALER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EXCEPT AS OTHERWISE SPECIFIED HEREIN.
- 3. ALL SURFACES TO RECEIVE THE PENETRANT SEALER SHALL BE SANDBLASTED TO PROVIDE A CLEAN UNIFORM TEXTURE FREE OF FOREIGN SUBSTANCES SUCH AS OILS, RELEASE AGENTS, CURING AGENTS OR EFFLORESCENCE. ALL SANDBLASTING RESIDUE SHALL BE COMPLETELY REMOVED PRIOR TO APPLICATION OF THE PENETRANT SEALER.
- 4. THE RATES OF APPLICATION AND NUMBER OF COATS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CLARK+ NEXSEN

Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



REPAIRS ERPASS |

DETAIL A

BE CLEANED WITH OIL AND WATER FREE COMPRESSED AIR.

SILICONE JOINT SEALANT NOTES:

DOW CORNING 902 RCS OR APPROVED EQUAL.

INSTALLATION WITH APPROVAL OF THE ENGINEER.

NOT TO SCALE

1. RAPID CURE SILICONE JOINT SEALANT SHALL BE CLASS D IN ACCORDANCE WITH

2. PRIOR TO APPLYING THE PRIMER FOR THE SEALANT, JOINT SHALL BR FREE OF

3. THE MANUFACTURER'S REQUIREMENTS FOR INSTALLATION OF SEALANT SHALL BE

SPECIAL PROVISIONS FOR SEALING EXPANSION JOINTS. JOINT SEALANT SHALL BE

CRACKED OR SPALLED AREAS, ALL FOREIGN MATTER, OILS, GREASE AND ANY OTHER

DEBRIS. ALL FACES SHALL BE ABRASIVELY BLASTED OR BRUSHED WITH A MECHANICAL

ROTARY BRUSH. JUST PRIOR TO INSTALLING PRIMER FOR SEALANT. THE JOINTS SHALL

USED IF MORE STRICT THAN THOSE INDICATED ABOVE, OR IF ANY REQUIREMENTS IN

THIS SHEET CONFLICTS WITH THE MANUFACTURER'S REQUIREMENTS FOR PROPER

BASE BID DEPARTMENT OF PUB NORFOLK, VIRGINIA **PARK**

CN NO: 4182 DATE: 01/03/12 DESIGN: EAJ DRAWN: WBB

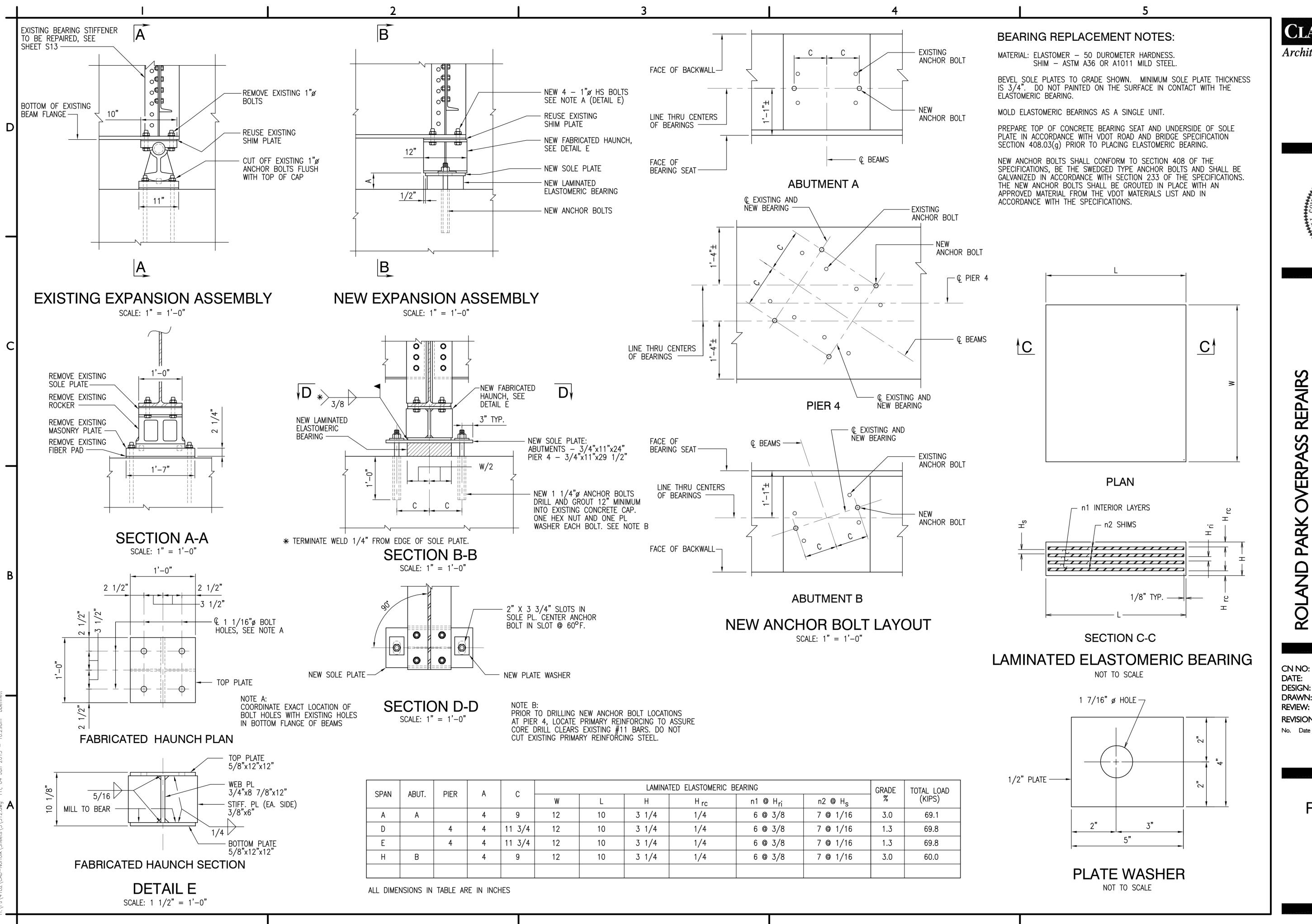
REVIEW: CAR **REVISIONS**

No. Date

TRANSVERSE SECTION, RECOATING **NOTES**

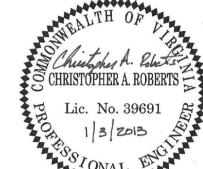
SURFACE PENETRANT SEALER NOTES:

- 5. SEE PLAN ON SHEET S1 AND TRANSVERSE SECTION FOR LIMITS OF SURFACE PENETRANT SEALER.



Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



SS ERP/ BASE BID DEPARTMENT OF PUBLIC V NORFOLK, VIRGINIA **AND PARK**

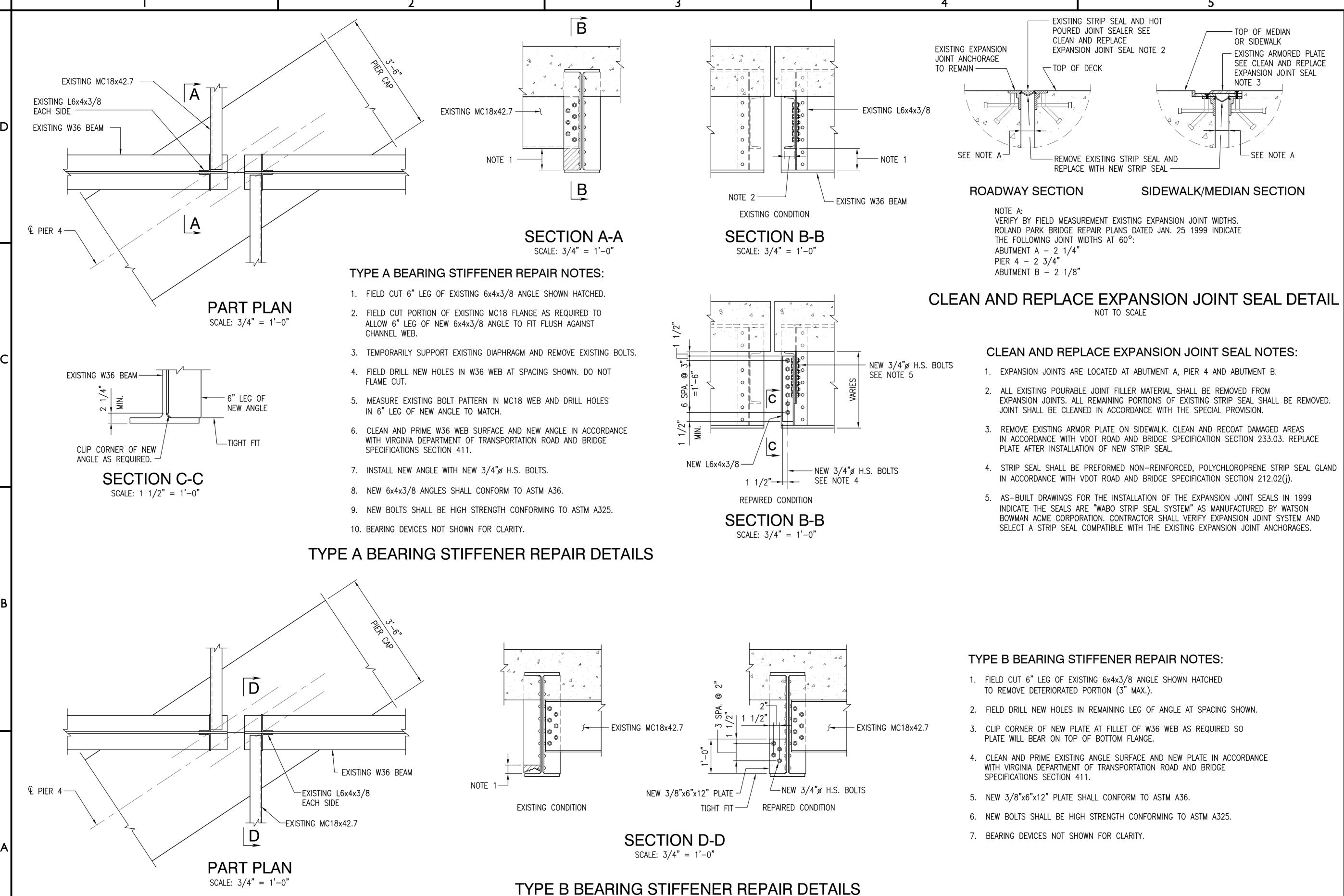
CN NO: 4182 DATE: 01/03/12 DESIGN: EAJ DRAWN: WBB

REVIEW: CAR **REVISIONS**

No. Date

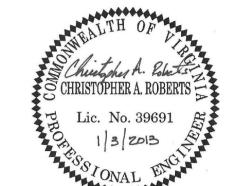
BEARING REPLACEMENT **DETAILS AND NOTES**

SHEET



Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757:455:5800 FAX 757:455:5638 WWW.CLARKNEXSEN.COM



OLAND PARK OVERPASS REPAIRS

SE BID

PARTMENT OF PUBLIC WORKS

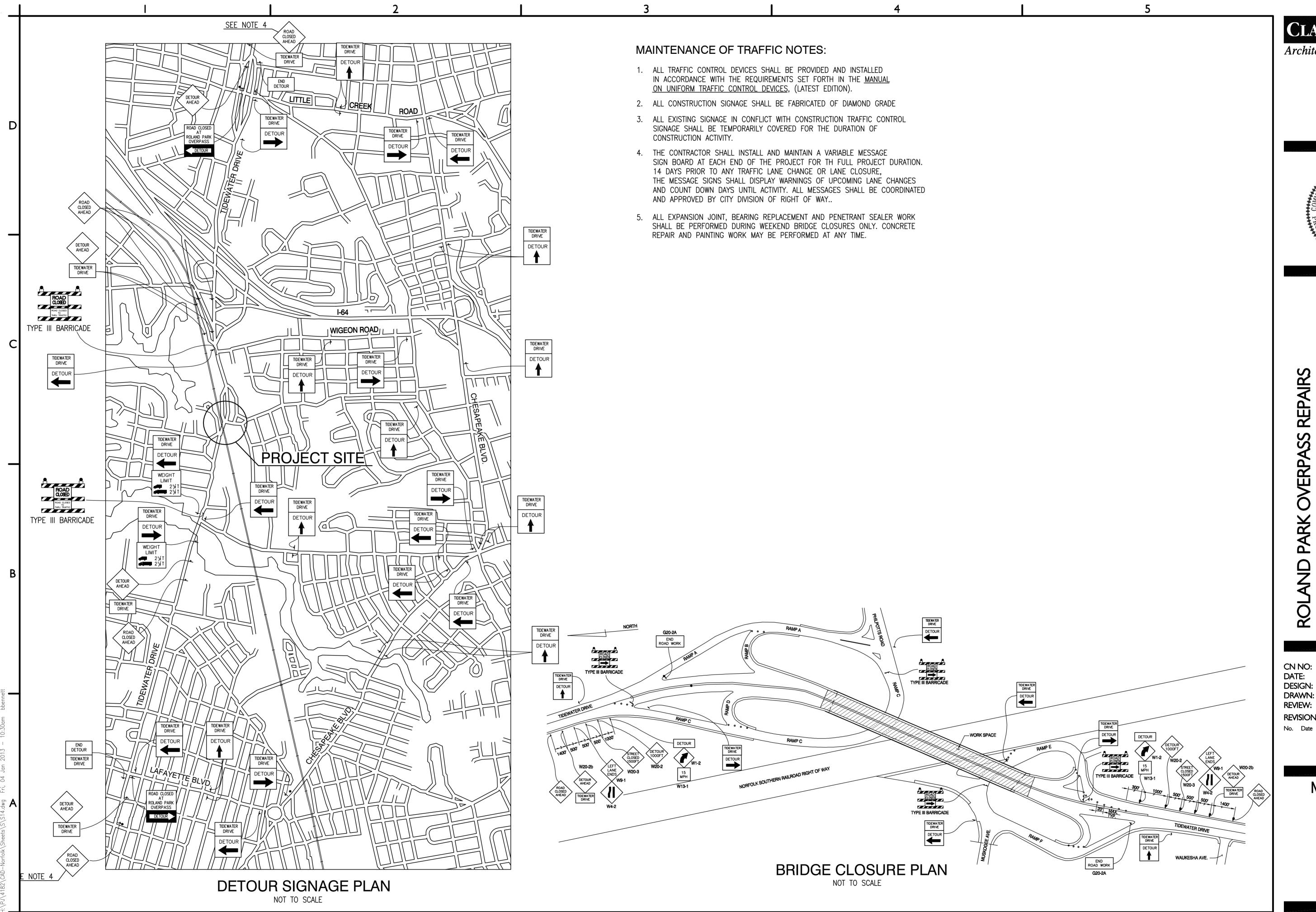
CN NO: 4182
DATE: 01/03/12
DESIGN: EAJ
DRAWN: WBB
REVIEW: CAR

REVISIONS

No. Date Des

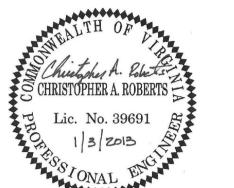
BEARING
STIFFENER
REPAIR DETAILS
AND NOTES
\$\frac{\$13}\$

IEET 14 OF



Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



REPAIRS SS **ERPA**

CN NO: 4182
DATE: 01/03/12
DESIGN: EAJ
DRAWN: WBB
REVIEW: CAR **REVISIONS**

MAINTENANCE OF TRAFFIC **PLANS**

ROLAND PARK OVERPASS BRIDGE RAMP IMPROVEMENTS

ADDITIVE ALTERNATE # I

NORFOLK, VIRGINIA SITE PLAN # 12-0062

INDEX OF DRAWINGS

SHEET NUMBER GENERAL	SHEET INDEX	SHEET TITLE
GI001	1	TITLE SHEET
CIVIL		
C1	2	LEGEND GENERAL NOTES & ABBREVIATIONS
C2	3	EXISTING CONDITIONS PLAN
C3	4	EXISTING CONDITIONS PLAN
C4	5	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C5	6	SOIL EROSION SEDIMENT CONTROL & DEMO PLAN
C6	7	SOIL EROSION SEDIMENT CONTROL & DEMO PLAN
C7	8	IMPROVEMENT & GRADING PLAN
C8	9	IMPROVEMENT & GRADING PLAN
C9	10	PAVING PLAN
C10	11	PAVING PLAN
C11	12	SITE DETAILS
C12	13	SITE DETAILS
C13	14	MAINTENANCE OF TRAFFIC NOTES & DETAILS
C14	15	MAINTENANCE OF TRAFFIC - DETOUR PLAN
C15	16	MAINTENANCE OF TRAFFIC — DETOUR PLAN

SITE NOTES

- THIS PROPERTY IS LOCATED WITHIN A CITY OF NORFOLK CBPA DESIGNATED INTENSELY DEVELOPED AREA (IDA).
 LAND DISTURBANCE = 0.34 ACRES. SITE WILL NEED VSMP CONSTRUCTION PERMIT PRIOR TO LAND DISTURBANCE. CONTACT THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION AT (804) 225-2613 TO OBTAIN A VSMP CONSTRUCTION PERMIT.
- THE CONTRACTOR SHALL CONTACT THE CITY OF NORFOLK, BUREAU OF ENVIRONMENTAL SERVICES AT 664-4368 AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY SO THAT A PRECONSTRUCTION CONFERENCE CAN BE SCHEDULED.
- CONTRACTOR SHALL INSTALL ALL UTILITIES TO THE TOLERANCE REQUIRED BY THE CITY OF NORFOLK AND AS SHOWN ON THESE PLANS. SPECIFICALLY:
 - ALL STORM DRAINAGE SHALL BE INSTALLED TO WITHIN 0.10 FEET (ONE TENTH OF A FOOT) OF THE ELEVATION SHOWN ON THE PLAN, OR AS SPECIFIED IN WRITING BY THE CITY.
 - MINIMUM STORM SEWER SLOPE SPECIFIED ON THE PLAN ARE ABSOLUTE MINIMUM; LESSER SLOPE WILL NOT BE ACCEPTED UNLESS IN WRITING BY THE CITY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTION COST (I.E. PLAN, REVISION, PHYSICAL CORRECTION, ETC.) REQUIRED AS A RESULT OF INSTALLATION NOT MEETING THE REQUIREMENT TOLERANCE.

VICINITY MAP

KEY PLAN

SCALE: 1"=800'

SCALE: 1"=200'



LOCATION MAP

SCALE: 1"=400'



CLARK NEXSEN

Architecture & Engineering

6160 KEMPSVILLE CIRCL NORFOLK, VIRGINIA 2350 757-455-5800 FAX 757-455-563 WWW.CLARKNEXSEN.CO



AND PARK OVERPASS BRIDGE
P IMPROVEMENTS
TIVE ALTERNATE #1
STMENT OF PUBLIC WORKS

CN NO: 4183
DATE: 1/03/13
DESIGN: JLB
DRAWN: BJL
REVIEW: CAR
REVISIONS

TITLE SHEET



WWW.NORFOLK.GOV/PUBLICWORKS/ROW

CONFLICT WITH STORM WATER INFRASTRUCTURE.

CONSTRUCTION.

UNLESS NOTED OTHERWISE.

20. CONTRACTOR SHALL CONFORM TO THE "OVERHEAD HIGH VOLTAGE ACT" (EFFECTIVE JULY 1,

1989) AND SHALL CONTACT THE NECESSARY AUTHORITIES PRIOR TO START OF

21. CONTRACTOR TO NOTIFY THE PUBLIC WORKS INSPECTOR ON FIRST IDENTIFICATION OF

22. FOR WORK IN THE CITY OF NORFOLK RIGHT-OF-WAY, CONTACT 48 HOURS IN ADVANCE.

	l		•			
	GENERAL NOTES					LEGEND
1	1. EXCAVATED MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED MANNER.	OF IN A LAWFUL	DIVISION OF RIGHT OF	- WAY (PERMITS)	664–7306	EXISTING
2	2. UNLESS OTHERWISE NOTED, ALL EXISTING UTILITIES SHALL REMAIN IN SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONS SHALL BE RESPONSIBLE FOR REPLACEMENT OF UTILITIES DAMAGED E	TRUCTION. CONTRACTOR	DIVISION OF ENVIRONM DEPARTMENT OF PARK CONSTRUCTION PERMIT DEPARTMENT OF UTILIT	MENTAL`STORM WATER (S AND URBAN FORESTRY TS TIES (72 HOURS)	823-4000 823-4023 664-6565 823-1001	> ©
3	3. WHEN MATERIALS WHICH ARE UNSUITABLE FOR SUBGRADE OCCUR WI CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL I AND THE AREAS SO EXCAVATED SHALL BE BACKFILLED WITH APPROV (SELECT BORROW).	BELOW THE SUBGRADE, 23 ED SUITABLE MATERIAL	3. THE CONTRACTOR WILL BE F		TO WORK IN THE RIGHT OF WAY.	W
4	4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN KEPT ON THE SITE AT ALL TIMES.		CONTRACTOR MUST SUBMIT AREA. THE CITY DOES NOT ARIGHT OF WAY. CONTRACTOR	A MAP IDENTIFYING THE PROJ		
5	 FIELD ENGINEERING INFORMATION: ALL REQUESTS FOR INSPECTIONS A CONSTRUCTION INFORMATION SHOULD BE DIRECTED TO TIM McCRANE OFFICE, 664-4602. 	FIELD ENGINEERING	CONSTRUCTION SITE. 5. ALL TEMPORARY BULK WASTI			<u> </u>
6	6. A CONSTRUCTION SCHEDULE SHALL BE SUBMITTED TO THE STRUCTULE FACILITIES BUREAU PRIOR TO THE PRE—CONSTRUCTION CONFERENCE.	RAL AND WATERFRONTS	PERMIT FROM THE DIVISION	OF RIGHT OF WAY AT 664-7		
7	7. SUBMITTALS ON MATERIALS FOR THIS PROJECT SHALL BE APPROVED PUBLIC WORKS DESIGN DIVISION PRIOR TO BEGINNING CONSTRUCTION	BY DEPARTMENT OF	CURB AND GUTTER, AND DR PERMIT FROM THE DIVISION	RIVEWAY APRON INSTALLATION	WILL BE ALLOWED WITHOUT A O6). ALL TRAFFIC CONTROL SHALL	\$ 3
8	8. A SITE VISIT SHALL BE PERFORMED PRIOR TO SUBMITTING BID.		DEVICES (MUTCD), THE VIRGINORFOLK RIGHT—OF—WAY EX	INIA WORK AREA PROTECTION CCAVATION AND RESTORATION	MANUAL, AND THE CITY OF MANUAL. ADDITIONAL CHARGES	<i>GB−1</i>
ç	9. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH STANDARDS FOR THE CITY OF NORFOLK DEPARTMENT OF PUBLIC WO DEPARTMENT OF UTILITIES SUPPLEMENTAL SPECIFICATIONS AND STAND	RKS, CITY OF NORFOLK DARDS, HRPDC REGIONAL	www.norfolk.gov/publicwo	ORKS/ROW.	OF PERMIT FEES IS LOCATED AT	J.S.
1	CONSTRUCTION STANDARDS AS AMENDED BY THE CITY OF NORFOLK, BRIDGE STANDARDS, VOL 1 & 2 AND VDOT ROAD AND BRIDGE SPEC	N ADVANCE OF UTILITY	AND/OR REMOVAL OF ANY S REQUIRED TO REMOVE SAID SIDEWALK SHALL BE REMOVE	SECTION OF AN EXISTING SIDE SIDEWALK AND REPLACE IT W ED TO THE NEAREST JOINT.	ITING AND/OR PARTIAL DEMOLITION EWALK, THE CONTRACTOR SHALL BE WITH A NEW MONOLITHIC SIDEWALK. ALL CONCRETE IS TO BE SAW CUT. REPLACED WITH AN APPROVED	•
	WORK. FOR LOCATION OF UTILITIES, CALL: "MISS UTILITY" PRIOR TO EXCAVATION. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY (UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND AREA OF CONSTRUCTION. THE CITY OF NORFOLK SHALL BE HELD HA	OF LOCATING ANY CROSS THROUGH THE RMLESS AGAINST ANY	SIDEWALK DETAIL. CONTACT FOR APPROVAL (ORDINANCE	THE DIVISION OF RIGHT—OF—NO. 40.778).	-WAY PERMIT OFFICE AT 664-7306	o o
	LOSSES, DAMAGES, OR CLAIMS OF ANY NATURE AT ALL ARISING OUT FAILURE TO COMPLY TO THE LAW. ANY UTILITIES (PUBLIC OR PRIVAT REQUIREMENTS OF THIS BY THE CONTRACTOR SHALL BE REPAIRED A EXPENSE.	E) DAMAGED WITH THE			TING UTILITY STRUCTURES SHALL BE HE NEW SIDEWALK. A PERMIT AND	CONC.
1	11. AN APPROVED PERMIT DOES NOT PRECLUDE THE EXCAVATOR, BY ST. CONTACTING THE DIVISION OF TRANSPORTATION NOTIFICATION OFFICE HOURS IN ADVANCE WITH PERMIT NUMBER.	ATE LAW, FROM	WITH THE CONTRACTOR'S PE SHALL BE A DRAWING OR AI INCLUDE, BUT ARE NOT LIMI	ERMIT APPLICATION TO WORK ERIAL PHOTO WITH SITE—SPEC ITED TO, TRAFFIC SIGNS, DIRE		——————————————————————————————————————
1	12. REPLACE ANY MATERIALS, PAVEMENT, ENTRANCES, INCLUDING UTILITY NO EXPENSE TO THE CITY OF NORFOLK THAT MUST BE CUT OR THA CONSTRUCTION.		ADDITIONALLY, THE MOT SHADEVICES, INCLUDING SPACING	ALL DISPLAY THE EXACT LOCATED FOR EACH SIGN AND/OR D	EVICE. SPACING SHALL BE	<u> </u>
1	13. CONSTRUCT AND MAINTAIN THROUGHOUT THE JOB ALL EROSION AND REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLANS SHOWN DRAWINGS. ALL EROSION AND SEDIMENT CONTROL METHODS AND DEWITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (LA PLAN FOR LOCATIONS.	ON THE CONTRACT TAILS SHALL COMPLY	MAINTENANCE OF TRAFFIC (M VIRGINIA WORK AREA PROTEC ARE INCLUDED WITH THE PR	CTIÓN MANUAL. COPIES OR I ROJECT DRAWINGS AND SPECIF ERMIT APPLICATION. CONTRAC	TO THE CURRENT ISSUE OF THE REPRODUCTIONS OF THE MOT THAT FICATIONS WILL NOT BE ACCEPTED CTORS SHOULD CONSIDER THESE	
1	14. TOPSOIL, SEED, FERTILIZE AND LIME ALL AREAS WITHIN THE PROJECT BY STRUCTURES OR PAVEMENT.	F LIMITS NOT OCCUPIED 30	THEN CONTACT CITY FOREST	TER, RICHARD WERNICKE (757	ALL TREE PROTECTION FENCING AND O O O O O O O O O O O O O	
1	15. CITY WILL ACCEPT SAND OR STONE TICKETS ONLY ON THE DAY THE TO THE JOB SITE. TICKETS WILL NOT BE ACCEPTED WITH MONTHLY I SHALL BE STRICTLY ENFORCED.				N, PRUNING OR ANY DISTURBANCE ORFOLK PROPERTY PRIOR TO ANY	
1	16. LOCATION AND DEPTH OF CITY WATER IN EXCAVATION AREAS SHALL THE CONTRACTOR WITH A NORFOLK DEPARTMENT OF UTILITIES INSPE CONTRACTOR SHALL CONTACT THE UTILITIES FIELD ENGINEERING OFFI	BE FIELD VERIFIED BY CTOR PRESENT. OF TELEPHONE	TREES ON CITY OF NORFOLK	K PROPERTY/RIGHT-OF-WAY.		
	823-1001, AT LEAST 72 HOURS PRIOR TO EXCAVATION TO ARRANGE DEPARTMENT OF UTILITIES INSPECTOR TO BE PRESENT. NO EXCAVATION DISTURBANCE IS ALLOWED WITHIN THE CITY RIGHT-OF-WAY OR UTILITY WITHIN 24" OF THE TOP OF WATER MAINS. ANY SUCH EXCAVATION OF WILL REQUIRE A SITE SPECIFIC DESIGN TO PROTECT THE PIPE. STRUDESIGNS REQUIRE DEPARTMENT OF UTILITIES REVIEW AND APPROVAL.	FOR A NORFOLK ON OR OTHER SOIL ON EASEMENT THAT IS ON SOIL DISTURBANCE	BACKFILL WITHOUT PRIOR AP ACCORDANCE WITH THE 200: AROUND THE PIPE USE SELI	PPROVAL. THE SELECT MATERIA 22 VDOT ROAD AND BRIDGE S ECT MATERIAL (SECTION 207).	IN THE CITY OF NORFOLK FOR AL AND 21A STONE WILL BE IN PECIFICATIONS. FOR BACKFILL TYPE I AND CBR 20 COMPACTION. TONE IN ACCORDANCE TO SECTION	
1	17. WORK IN THE CITY RIGHT-OF-WAY IS PERMITTED ONLY BETWEEN TH AND 3:00 PM OR AS DETERMINED BY THE RIGHT OF WAY ADMINISTR	E HOURS OF 9:00 AM		R RESURFACING. AN ADMINIS	F ROADWAY PORTION IS CUT WITHIN STRATIVE FEE OF \$500 WILL BE	
1	18. ALL WORK WITHIN THE RIGHT OF WAY SHALL COMPLY WITH THE CITY WAY EXCAVATION & RESTORATION MANUAL, (ORDINANCE NO. 40.778) WORKS, DIVISION OF RIGHT OF WAY. THE DOCUMENT MAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR AND ADDRESS OF A DOCUMENT WAY BE DOWNLOWN NO. (OR ADDRESS OF A DOCUM	, DEPT. OF PUBLIC 34		DADWAY WITH A TEMPORARY STOURSE ASPHALT IN PLACE WIT	TONE (21A) RESTORATION WILL BE THIN 30 DAYS.	
1	WWW.NORFOLK.GOV/PUBLICWORKS/. 19. RIGHT OF WAY EXCAVATION PERMITS ARE REQUIRED TO PERFORM EX RIGHT OF WAY. PLEASE CONTACT THE RIGHT OF WAY PERMITS OFFIC WWW.NORFOLK.GOV/PUBLICWORKS/ROW	CAVATION WORK IN THE	THE COMPLETION OF THE PR		REQUIRED TO BE ERADICATED AT I THE CITY'S ROW EXCAVATION AND IBLICWORKS/ROW.ASP.	
	######WW VEN.VVY/ VEN.VWW.)/ NVW					

36. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING OUT THE EXISTING STORM SYSTEM WITHIN THE PROJECT LIMITS IN ORDER TO OBTAIN INVERT ELEVATIONS FOR THE NEW STRUCTURES.

PAYMENT FOR THIS SHALL BE INCIDENTAL TO THE CONTRACT.

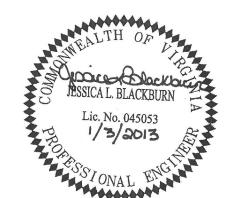
___NEW_ BEGIN PROJECT CDI CURB DROP INLET **DEMOLITION** DOMINION VIRGINIA POWER ELEV ELEVATION **GUY WIRE** EΡ END OF PROJECT HAMPTON ROADS PLANNING DISTRICT COMMISSION SHRUB IRON ROD FOUND TREE MATCH GRADE MODIFIED UNDERGROUND WATER NOW OR FORMERLY OHW OVERHEAD WIRE TOP OF SLOPE POINT OF CURVATURE POINT OF COMPOUND CURVATURE TOE OF SLOPE POINT OF TANGENCY PP POWER POLE SIGN REINFORCED CONCRETE PIPE SQ SSMH STA SQUARE POWER POLE SANITARY SEWER MANHOLE STATION STD STANDARD ELECTRIC HAND HOLE TBM TEMPORARY BENCHMARK TYP TYPICAL STORM DRAIN MANHOLE VIRGINIA DEPARTMENT OF TRANSPORTATION SANITARY SEWER MANHOLE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK VIRGINIA STORMWATER MANAGEMENT PROGRAM SOIL BORINGS WEST OR WATER WITH COMMUNICATION HAND HOLE YARD DROP INLET NUMBER SPOT ELEVATION ——SF—— SILT FENCE TREE PROTECTION CONNECT TO EXISTING GUARDRAIL CONCRETE **UTILITY OWNERS** CURB Norfolk Utilities WATER & SEWER David Speer Contact: OVERHEAD ELECTRICAL Address: 400 Granby Street Norfolk, Virginia 23510 STORM DRAINAGE INLET (757) 664-6701 (757) 664–6739 SD STORM DRAINAGE PIPE HRSD SEWER Hampton Roads Sanitation District Bambos Charalambous SANITARY LINES 1436 Air Rail Avenue Address: Virginia Beach, Virginia 23455 INLET PROTECTION (757) 460-7015 Phone: (757) 460–0637 Fax: ELECTRIC Owner: Dominion Virginia Power Bill Mifflin Contact: SOIL STABILIZATION 2100 Cromwell Drive Address: Norfolk, Virginia 23509 (757) 857–2372 TELEPHONE Owner: Verizon Wayne Hixenbaugh Contact: 3131B Sewells Point Road Norfolk, Virginia 23513 (757) 667-4099 CABLE T.V. Owner: Cox Communications Contact: Anthony Crish 5200 Cleveland Street Virginia Beach, Virginia 23462 (757) 222-6575 TELECOMMUNICATION Owner: Level 3 Communications (formerly KMC Telecom) Richard Eldreth 5700 Lake Wright Drive Norfolk, Virginia 23502 (757) 777–7719 Owner: Virginia Natural Gas Kevin Starke Contact: 544 S Independence Blvd Virginia Beach, Virginia 23452 (757) 616-7529 (757) 466–5514 TRAFFIC/ TRANSPORTATION City of Norfolk Owner: Contact: Rob Brown 810 Union Street, Room 200 Norfolk, Virginia 23520 (757) 664-7300 Phone: (757) 664-7311

ABBREVIATIONS



Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



ROLAND PARK OVE RAMP IMPROVEMEN ADDITIVE ALTERNATE #1 DEPARTMENT OF PUBLIC CITY OF NORFOLK, VIRGII

BRIDGE

SS

ERP.

CN NO: 4183 DATE: 1/03/13

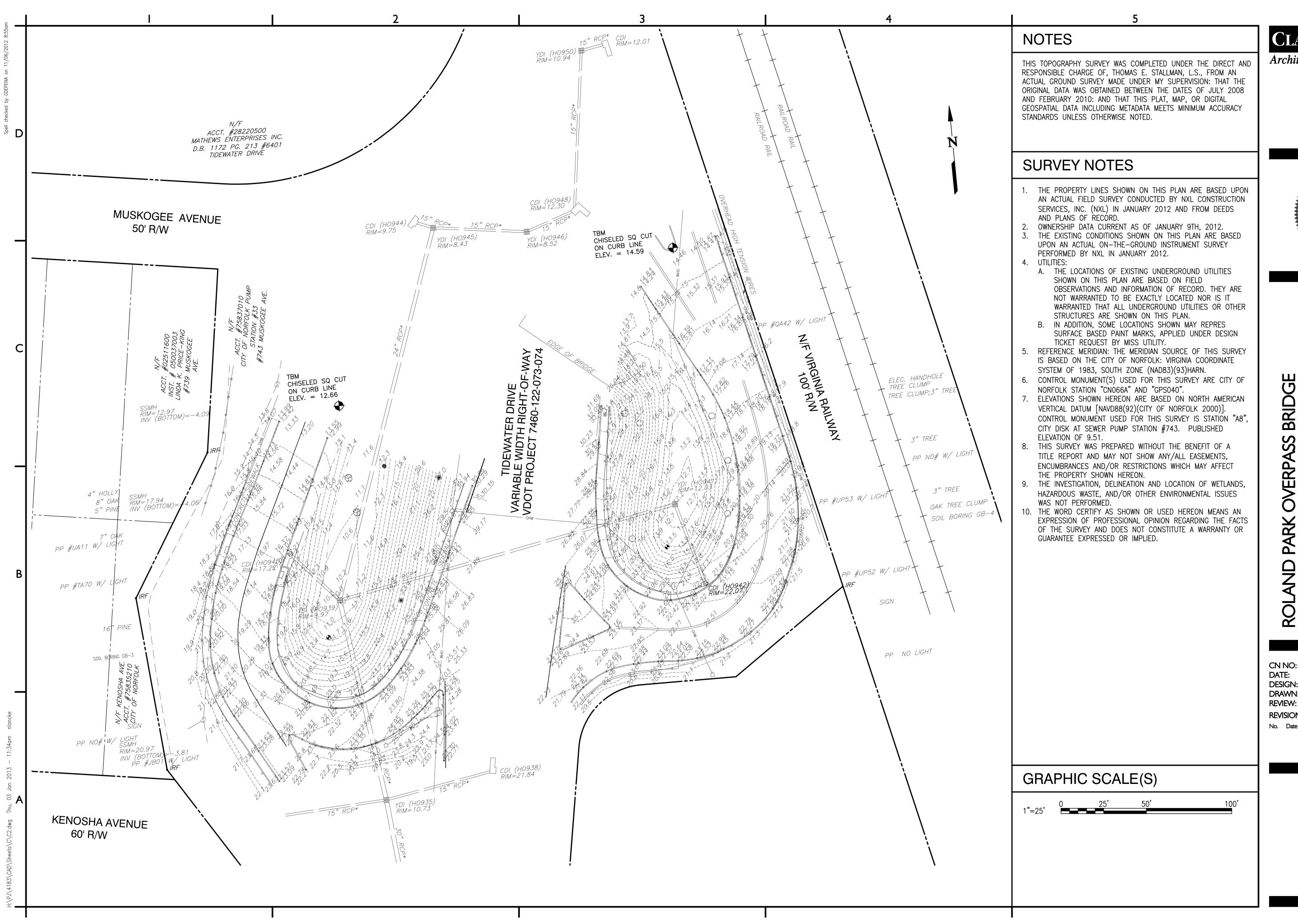
DESIGN: JLB DRAWN: BJL REVIEW: CAR **REVISIONS**

No. Date

LEGEND GENERAL NOTES

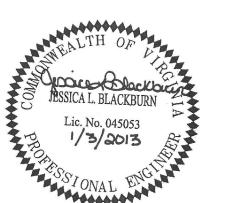
ABBREVIATIONS

SHEET 2 OF 16



Architecture & Engineering

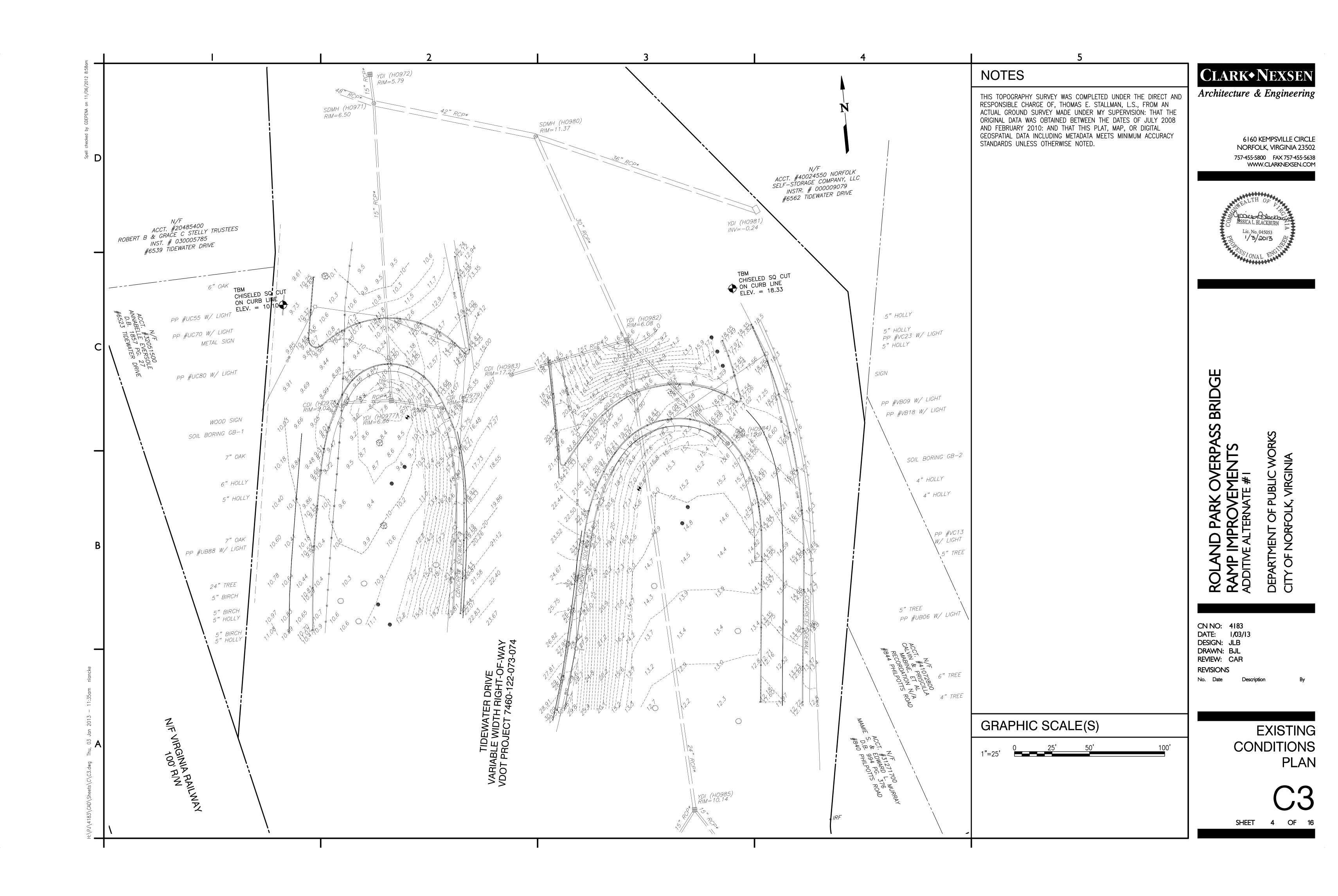
6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



Σ <u>#</u> # DEPARTMENT OF PUBLIC CITY OF NORFOLK, VIRGII

CN NO: 4183 DATE: 1/03/13 DESIGN: JLB DRAWN: BJL REVIEW: CAR **REVISIONS**

EXISTING CONDITIONS PLAN



NO SCALE

NO SCALE

BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER (P)

SOIL EROSION AND SEDIMENT CONTROL NOTES

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THE EROSION AND SEDIMENT CONTROL PLAN AND SEQUENCE WILL ADDRESS LAND DISTURBANCE FOR THE DESIGN OF THE ROLAND PARK RAMP IMPROVEMENT PROJECT LOCATED ALONG TIDEWATER DRIVE IN NORFOLK.

THE PROJECT INVOLVES WIDENING THE ENTRANCE AND EXIT RAMPS TO ACCOMMODATE THE HEAVY TRACTOR TRAILER TRAFFIC. THESE IMPROVEMENTS RESULT IN 0.34 ACRES OF DISTURBANCE. THE PROJECT WILL SLIGHTLY INCREASE THE IMPERVIOUS COVER BY 0.04 ACRES DUE TO THE WIDENING OF THE RAMPS.

EXISTING SITE CONDITIONS

THE SITE IS ALONG AN URBAN MINOR ARTERIAL THAT CROSSES OVER RAILROAD TRACKS. DUE TO THE CLOVERLEAF PATTERN OF THE RAMPS, THE GRADES RANGE APPROXIMATELY 7 FEET.

THE SITE IS SURROUNDED BY RESIDENTIAL NEIGHBORHOODS AND SHIPPING WAREHOUSES.

STAGING AND STOCKPILE AREAS WILL BE LOCATED WITHIN THE PROJECT LIMITS SHOWN ON THE PLANS. CONTRACTOR STAGING AREA WILL BE WITHIN THE RAMPS. SOIL EROSION AND SEDIMENT

CONTROL MEASURES WILL BE INSTALLED AT THE STAGING AREA.

TO A DEPTH OF TWENTY FEET BELOW GROUND, THE SOILS CONSIST OF SILTY SAND.

THERE ARE NO CRITICAL EROSION AREAS ASSOCIATED WITH THIS PROJECT.

EROSION AND SEDIMENT CONTROL MEASURES UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESH). CURRENT EDITION AND THE CITY OF NORFOLK SEDIMENT CONTROL HANDBOOK EROSION AND SEDIMENT CONTROL ORDINANCE. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE FROM THE CITY PRIOR TO DEMOLITION AND SITE

MEASURES INCLUDE TEMPORARY CONSTRUCTION ENTRANCES, INLET PROTECTION, TREE PROTECTION

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION AND EARTH-MOVING ACTIVITIES.

CONTACT THE CITY OF NORFOLK, BUREAU OF ENVIRONMENTAL SERVICES (664-4368) AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES (INCLUDING DEMOLITION) TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE.

MANAGEMENT STRATEGIES/SEQUENCE OF CONSTRUCTION

- 1. INSTALL CONSTRUCTION ENTRANCE, TREE PROTECTION, SILT FENCE AND INLET PROTECTION ON THE PROJECT SITE AND THE STAGING AREA BEFORE ANY SITE DEMOLITION OR EARTH-MOVING ACTIVITY. SITE ACCESS BY CONSTRUCTION VEHICLES TO GRADED AREAS SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE.
- 2. STOCK PILE SOIL AND OTHER CREDIBLE MATERIALS AND STABILIZE OR PROTECT WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY AND PERMANENT STABILIZATION MEASURES FOR STOCKPILES LOCATED WITHIN THE PROJECT SITE OR THOSE TRANSPORTED FROM THE PROJECT SITE.
- 3. FILTER EFFLUENT FROM DEWATERING OPERATIONS TO AN APPROVED SEDIMENT TRAPPING DEVICE AND DISCHARGE IN A MANNER THAT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES, WETLANDS, WATERWAYS OR THE STORM DRAIN SYSTEM.
- 4. MONITOR AND ALLAY DUST USING WATER, MULCH OR CHEMICAL DUST ADHESIVES, TEMPORARY SEEDING AND CONTROL OF CONSTRUCTION SITE TRAFFIC OR OTHER MEASURES AS DIRECTED BY THE CITY INSPECTOR.
- 5. COMPLETE MAJOR GRADING AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION. TEMPORARY SEEDING OR OTHER APPROVED SOIL STABILIZATION MEASURES SHALL BE APPLIED TO ALL DENUDED OR DISTURBED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DISTURBED LONGER THAN 30 DAYS. INSTALL PERMANENT STABILIZATION WITHIN 7 DAYS OR AS DIRECTED BY THE CITY INSPECTOR AFTER FINAL GRADING IS COMPLETED. TEMPORARY SEEDING AND PERMANENT SEEDING WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SPECIFICATIONS.
- 6. INSTALL AND MAINTAIN ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED NECESSARY BY THE CITY
- 7. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND DISPOSE OF SEDIMENTS WITHIN 30 DAYS ONCE THE CITY INSPECTOR DETERMINES THAT CONSTRUCTION IS SUBSTANTIALLY COMPLETE AND THE WORK AREA IS STABILIZED.

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.

INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL MEASURES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE PERFORMED IMMEDIATELY.

SEDIMENTS AND EXCESS SPOILS WILL BE DISPOSED AT A FACILITY APPROVED BY LOCAL AND STATE REGULATIONS.

STOCKPILES STABILIZED WITH TEMPORARY SEEDING AND GRADED AREAS PERMANENTLY STABILIZED WITH SEED SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND WATERED IN ACCORDANCE WITH THE SPECIFICATIONS.

THE STRUCTURAL AND VEGETATIVE PRACTICES TO BE USED ARE DISCUSSED BELOW AND REFERENCED TO THE RESPECTIVE EROSION & SEDIMENT CONTROL NUMBER.

STRUCTURAL PRACTICES

- TEMPORARY CONSTRUCTION ENTRANCE 3.02 SITE ACCESS TO GRADED AREAS SHALL BE LIMITED TO TEMPORARY CONSTRUCTION ENTRANCE(S) OR AN APPROVED COMPARABLE CONTROL MEASURE TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS AND SURFACES BY CONSTRUCTION VEHICLES. SEDIMENT WILL BE REMOVED ON A DAILY BASIS.
- SILT FENCE BARRIER 3.05 SILT FENCE SEDIMENT BARRIERS SHALL BE PLACED AROUND THE SITE
- PERIMETER OF GRASS AREAS TO BE DISTURBED TO FILTER SEDIMENT LADEN OVERLAND RUNOFF. ORANGE SAFETY FENCE WILL ALSO BE PROVIDED TO DELINEATE THE CONSTRUCTION LIMITS.
- STORM DRAIN INLET PROTECTION 3.07 ALL STORM DRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION TO FILTER SEDIMENT-LADEN CONSTRUCTION RUNOFF BEFORE ENTERING STORM DRAIN INLETS.
- <u>DEWATERING 3.26</u> DEWATERING SHALL BE FILTERED THROUGH APPROVED SEDIMENT TRAPPING DEVICES, SUCH AS SEDIMENT BAGS, PRIOR TO DISCHARGING ONTO AN EROSION RESISTANT SURFACE.
- 5. <u>SOIL STABILIZATION 3.36</u> MATTING SHALL BE INSTALLED ON CRITICAL EROSION AREAS TO AID IN ESTABLISHMENT OF
- 6. TREE PROTECTION 3.38 A FENCE BARRIER IS TO BE PLACED AROUND THE TREES THAT WILL NOT BE DISTURBED TO PROTECT THE TREES AND OTHER VEGETATION FROM CONSTRUCTION EQUIPMENT AND SOIL COMPACTION.
- MEASURES TO PREVENT AND CONTROL DUST DURING DEMOLITION, EXCAVATION, GRADING AND ALL OTHER POTENTIAL LAND DISTURBING ACTIVITIES SHALL BE USED DURING CONSTRUCTION.

CITY OF NORFOLK STANDARD EROSION & SEDIMENT CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (3RD EDITION, 1992) AND THE CITY OF NORFOLK EROSION AND SEDIMENT CONTROL ORDINANCE.
- THE CONTRACTOR SHALL CONTACT THE CITY OF NORFOLK, BUREAU OF ENVIRONMENTAL SERVICES (664-4368) AND DIVISION OF ENVIRONMENTAL STORM WATER MANAGEMENT (823-4000) 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY (INCLUDING DEMOLITION) TO SCHEDULE A PRECONSTRUCTION CONFERENCE.
- THE CONTRACTOR SHALL APPLY PERMANENT OR TEMPORARY SOIL STABILIZATION TO ALL DENUDED OR DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED TO DENUDED OR DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WHICH WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. SOIL STABILIZATION MEASURES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING AND THE EARLY APPLICATION OF GRAVEL BASE MATERIAL ON AREAS TO BE PAVED.
- 4. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.
- THE CONTRACTOR SHALL LIMIT SITE ACCESS BY CONSTRUCTION VEHICLES TO ENTRANCES PROTECTED BY A STONE CONSTRUCTION ENTRANCE (VESCH STD. & SPEC. 3.02) OR AN APPROVED COMPARABLE CONTROL MEASURE. SEDIMENT SHALL BE REMÓVED FROM PAVED AREAS ON A DAILY BASIS.
- STOCK PILES OF SOIL AND OTHER ERODIBLE MATERIALS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION FOR STOCKPILES ON SITE AS WELL AS FOR MATERIALS TRANSPORTED FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST INCLUDING (BUT NOT LIMITED TO) USE OF WATER, MULCH, OR CHEMICAL DUST ADHESIVES AND CONTROL OF CONSTRUCTION SITE TRAFFIC.
- EFFLUENT FROM DE-WATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH. AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES. WETLANDS. WATERWAYS OR THE STORM DRAINAGE SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED NECESSARY BY THE PLAN APPROVING AUTHORITY.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED. UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS. TRAPPED SEDIMENT SHALL BE SPREAD AND SEEDED.

CLARK NEXSEN

Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



PARK OVE PROVEMEN TERNATE #1 PUBLIC Y K, VIRGIN 1 OF

CN NO: 4183 DATE: 1/03/13 DESIGN: JLB DRAWN: BJL **REVIEW: CAR**

REVISIONS

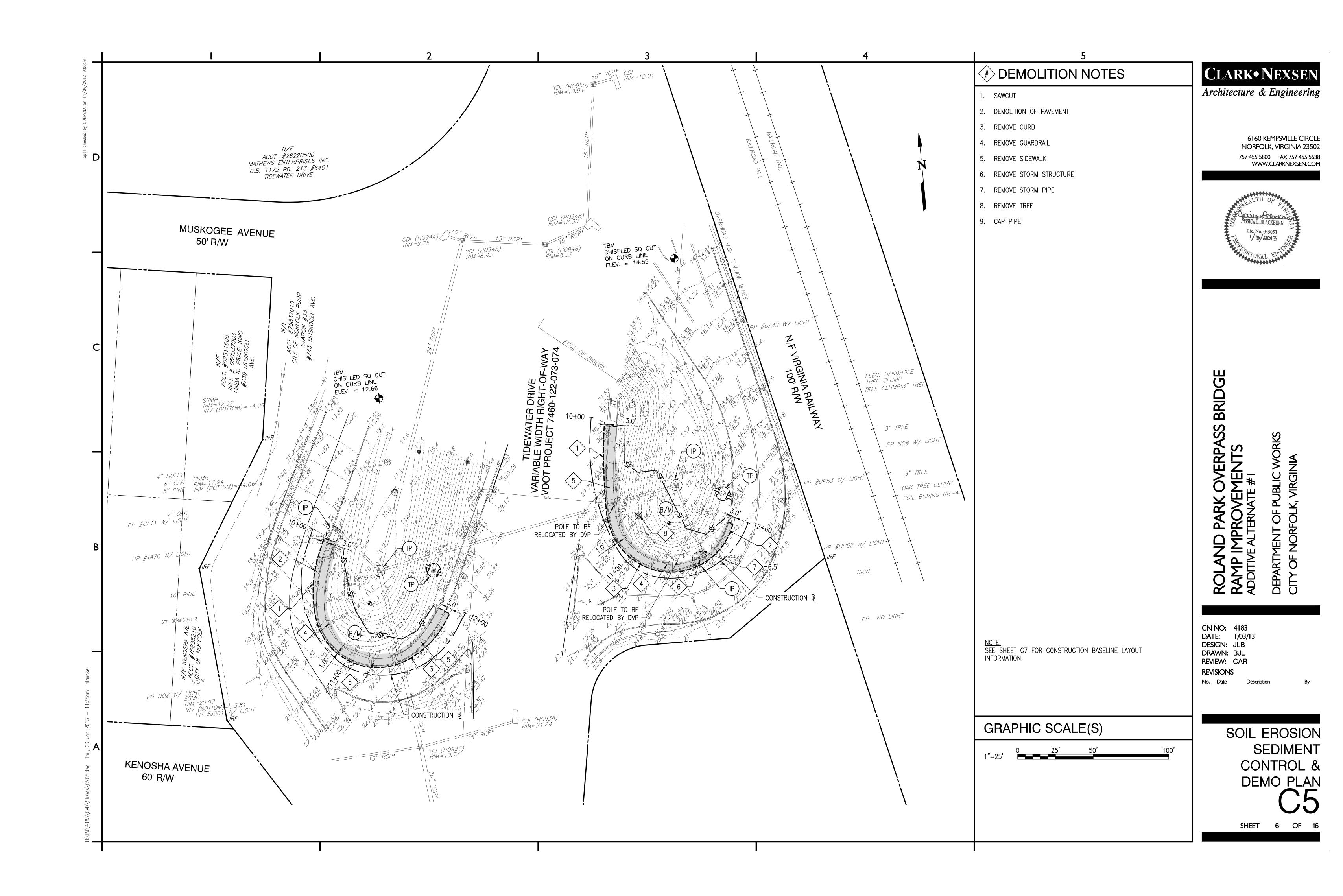
BRIDGE

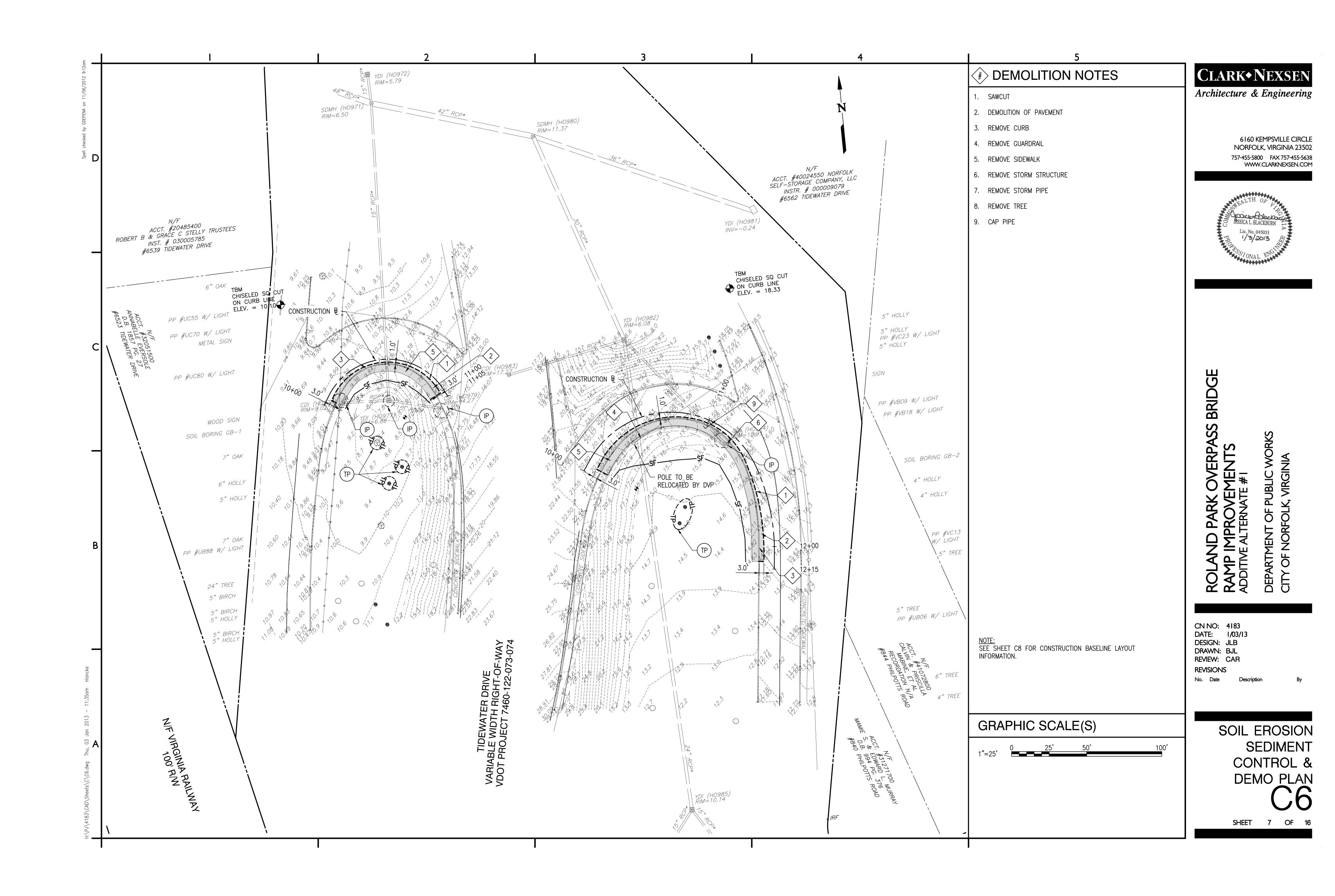
SS

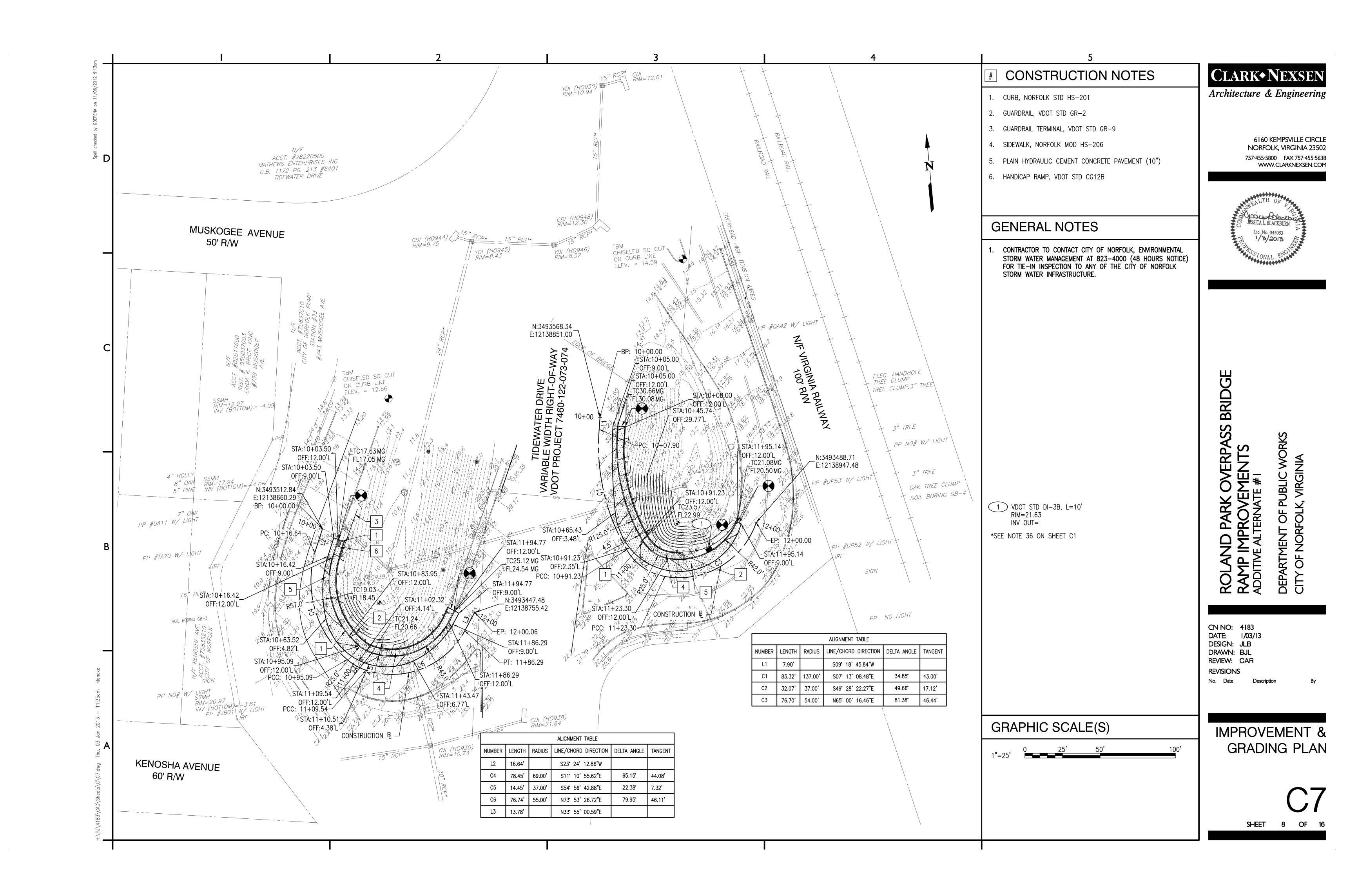
No. Date

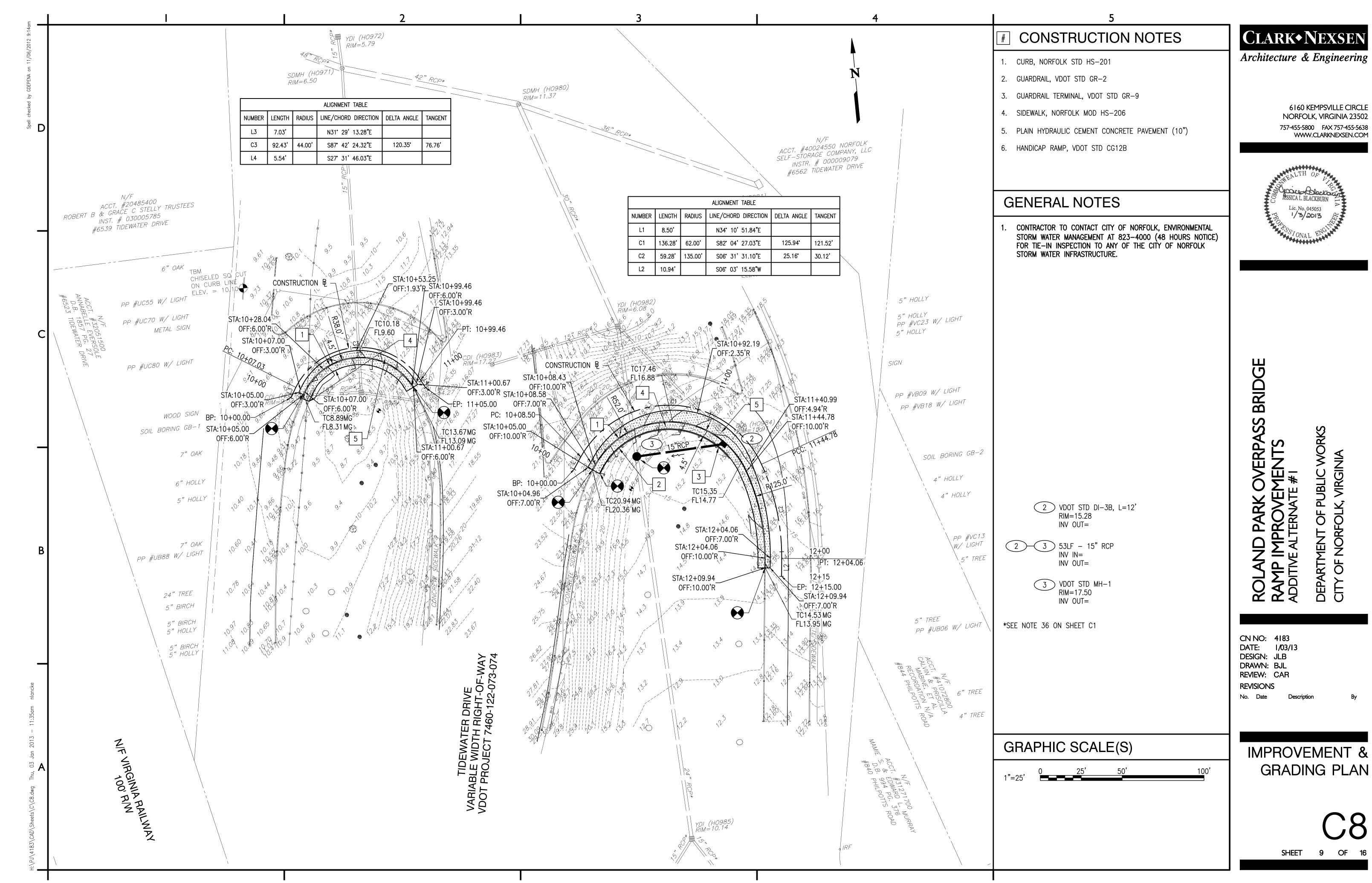
SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

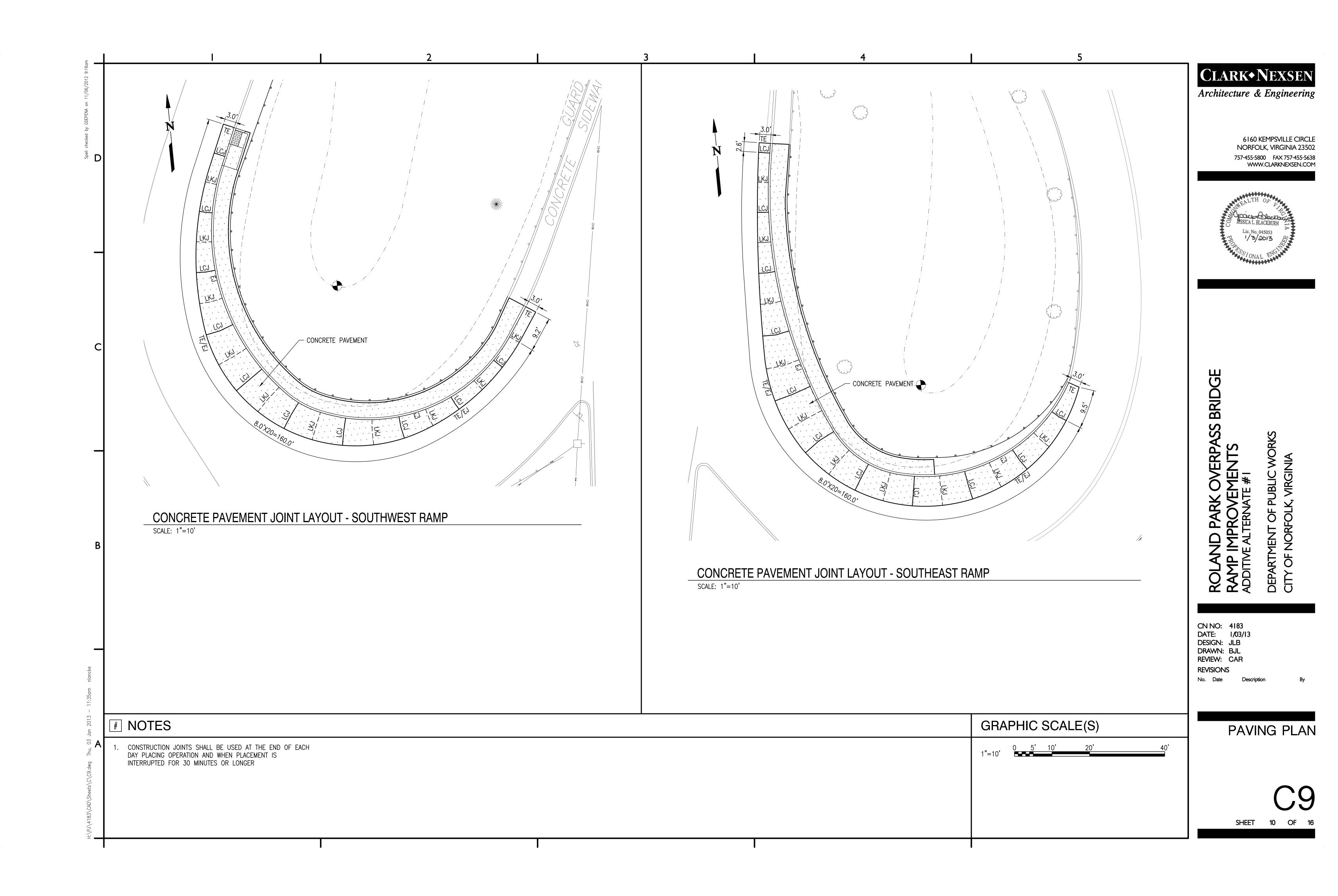
SHEET

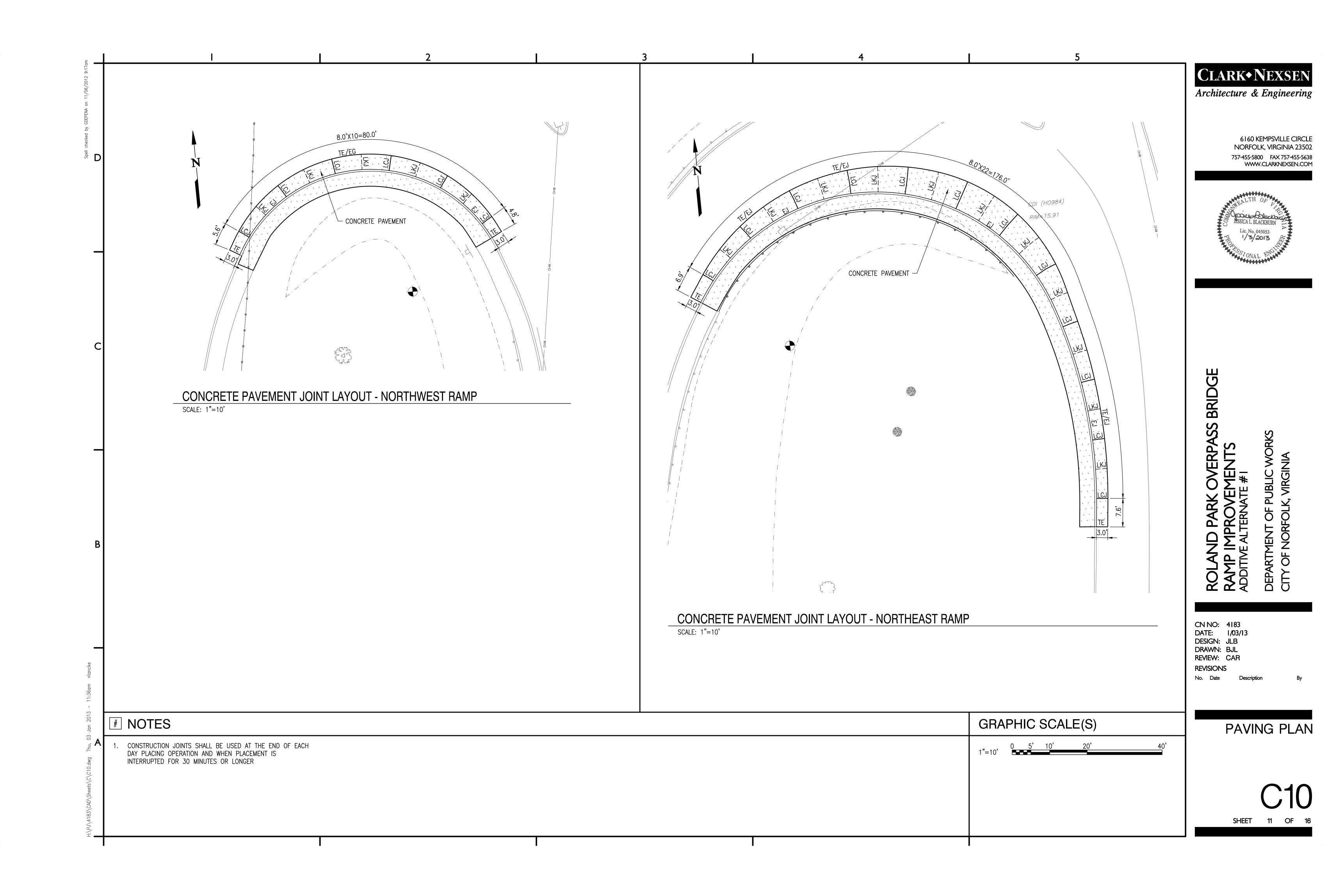


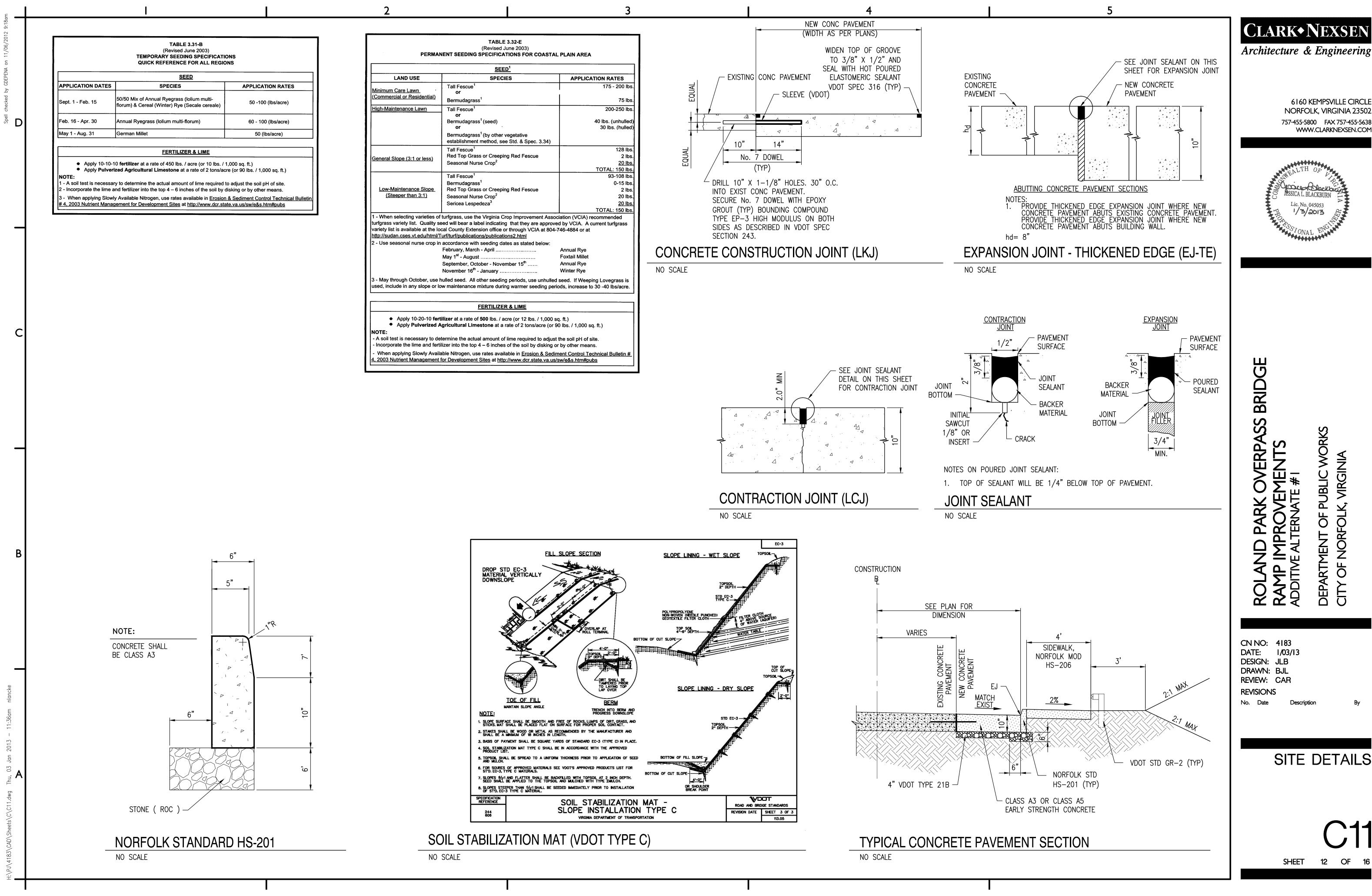




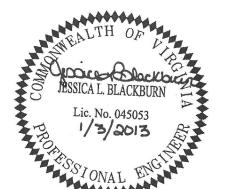








6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757·455·5800 FAX 757·455·5638 WWW.CLARKNEXSEN.COM



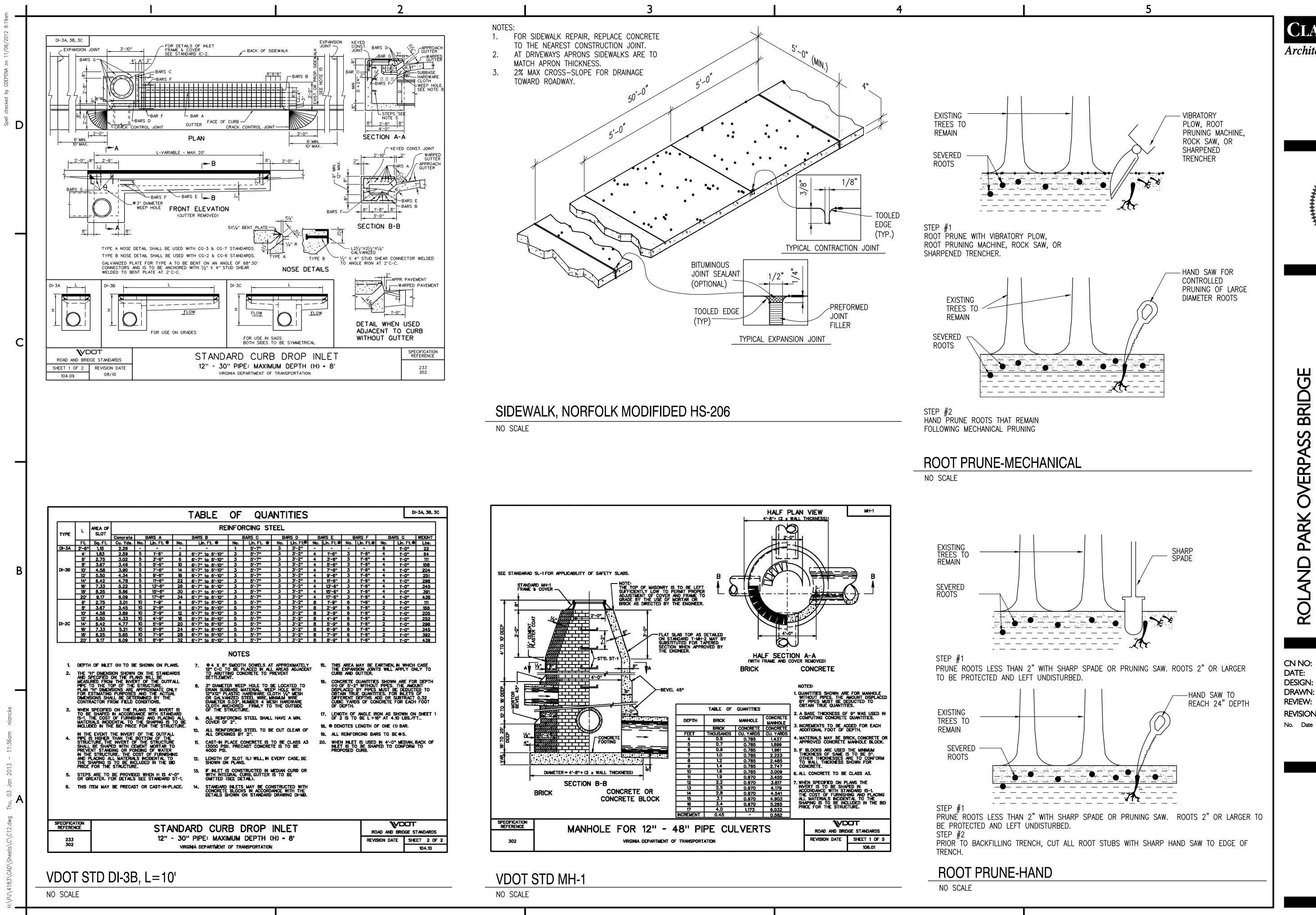
MENT OF PUBLIC V F NORFOLK, VIRGIN

CN NO: 4183 DATE: 1/03/13 DESIGN: JLB DRAWN: BJL

REVIEW: CAR

SHEET

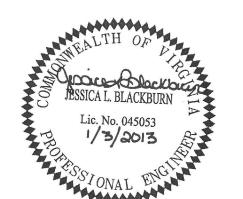
SITE DETAILS



CLARK NEXSEN

Architecture & Engineering

6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757:455:5800 FAX 757:455:5638 WWW.CLARKNEXSEN.COM



OVERPASS BRIDGE :MENTS E#I

CN NO: 4183
DATE: 1/03/13
DESIGN: JLB
DRAWN: BJL
REVIEW: CAR
REVISIONS

SITE DETAILS

C12
SHEET 13 OF 1

ALL CURRENT EDITIONS AND REVISIONS:

ADMINISTRATION. (MUTCD)

AND DECEMBER.

TRAFFIC MANAGEMENT PLANS:

PRIOR TO BEGINNING WORK.

OF ALL CONSTRUCTION ACTIVITIES.

DEVICES OR MATERIALS.

WARNING LIGHTS.

APPLICATIONS SHALL CONFORM TO THE FOLLOWING PUBLICATIONS INCLUDING

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS

VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS VOL.

VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.

VIRGINIA DEPARTMENT OF TRANSPORTATION WORK AREA PROTECTION MANUAL.

WORK HOURS IN ROADWAY OPEN TO TRAFFIC AND/OR PEDESTRIAN AREA:

ADDITIONAL RESTRICTIONS MAY APPLY BASED ON TRAFFIC CONDITIONS.

(5) WORKING DAYS PRIOR TO THE EXTENDED WORK PERIODS.

HOURS OF 9:00 A.M. AND 4:00 P.M. ONLY.

MONDAY THROUGH SATURDAY: WORK SHALL BE COMPLETED BETWEEN THE

SUNDAYS AND HOLIDAYS: NO WORK MAY BE COMPLETED IN THE ROADWAY AREAS

UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY THE OWNER.

EXTENDED WORK HOURS AND WORK DAYS MAY BE REQUESTED WITH A WRITTEN

REQUEST TO THE OWNER. THIS REQUEST MUST BE SUBMITTED AT LEAST FIVE

THE OWNER RESERVES THE RIGHT TO MODIFY THE WORK HOUR RESTRICTIONS

TRAFFIC MANAGEMENT PLANS ARE INCLUDED FOR THIS PROJECT: HOWEVER,

FIELD CONDITIONS MAY REQUIRE AMENDMENTS AND MODIFICATIONS. IF THE

PROJECT DOES NOT SUIT CONDITIONS AT A WORK SITE, THEN THE CONTRACTOR

SHALL SUBMIT TO THE OWNER A REVISED PLAN TO MAINTAIN TRAFFIC. THE

IDENTIFY THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT

THE REVISED TRAFFIC CONTROL PLAN(S) A MINIMUM 10 CALENDAR DAYS PRIOR

REVISED PLAN SHALL INCLUDE SITE SPECIFIC TRAFFIC DETAILS AND SHALL

TO THE START OF WORK. THE CONTRACTOR SHALL NOT DISRUPT TRAFFIC

PLAN(S) AS NECESSARY IN THE INTEREST OF PUBLIC SAFETY OR TRAFFIC

EFFICIENCY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL

BEEN INSTALLED ACCORDING TO THE APPROVED TRAFFIC CONTROL PLAN(S).

THE CONTRACTOR SHALL CHECK ALL TRAFFIC MAINTENANCE AND CONTROL DEVICES AND WORK ZONES BEFORE. DURING, AND AFTER EACH WORK DAY TO

PATTERNS UNTIL THE OWNER HAS APPROVED THE REVISED TRAFFIC CONTROL

PLAN. THE OWNER RESERVES THE RIGHT TO MODIFY ANY TRAFFIC CONTROL

REQUIREMENTS HAVE BEEN MET AND THAT ALL TRAFFIC CONTROL DEVICES HAVE

ENSURE PROPER OPERATION. ON WEEKENDS, HOLIDAYS, OR ANY NON-WORKING

IN ALL CASES IN WHICH EXISTING OR ESTABLISHED TRAFFIC PATTERNS SHALL BE

DISRUPTED, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS AND/OR

AT NIGHT OR DURING NON-CONSTRUCTION HOURS, ALL EXCAVATED AREAS ARE

TO BE BACKFILLED OR SECURED AND PROTECTED BY USING APPROVED SAFETY

WHEN THE USE OF TYPE III BARRICADES IS REQUIRED (DAY OR NIGHT). ALL

STANDARDS (CONSTRUCTION INDUSTRIAL) 29 CFR, PART 1929, 1989 EDITION,

CONTRACTOR SHALL INSTALL "ROAD WORK AHEAD" (W21-4, 48" X 48") AND

GROUND MOUNTED POSTS. THESE SIGNS MUST BE INSTALLED PRIOR TO

"END ROAD WORK"(G20-2A, 48" X 24") WARNING SINGS ON 6" X 6" WOODEN

BEGINNING CONSTRUCTION WORK AND SHALL BE REMOVED AFTER COMPLETION

. TWO MESSAGE BOARDS SHALL BE PLACED ON TIDEWATER DRIVE, ONE IN EACH

BOTH READ "XX RAMP CLOSED 60 DAYS" "START DATE THRU END DATE".

DIRECTION, 7 DAYS IN ADVANCE OF THE DETOUR. THE MESSAGE BOARDS SHALL

ALL CONTRACTOR EMPLOYEES AND SUBCONTRACTOR(S) EMPLOYEES EXPOSED TO

VEHICULAR TRAFFIC SHALL BE PROVIDED WITH AND REQUIRED TO WEAR WARNING

VESTS MARKED WITH OR MADE OF REFLECTORIZED OR HIGH VISIBILITY MATERIALS.

BARRICADES SHALL BE EQUIPPED WITH TYPE B HIGH-INTENSITY FLASHING

IN ACCORDANCE WITH THE VIRGINIA OCCUPATIONAL SAFETY AND HEALTH

O. FOR CONSTRUCTION OPERATIONS LASTING MORE THAN 14 DAYS, THE

DAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE TRAFFIC

MAINTENANCE AND CONTROL DEVICES DAILY FOR PROPER OPERATION.

BUSINESSES A MINIMUM OF 48 HOURS IN ADVANCE OF THE ANTICIPATED

DISRUPTION BY DISTRIBUTING DOOR-TO-DOOR NOTICES. A COPY OF THE NOTICE SHALL BE FORWARDED TO THE OWNER FOR REVIEW AND APPROVAL

CONTRACTOR BELIEVES THAT THE TRAFFIC PLAN(S) INCLUDED WITH THIS

DUE TO HOLIDAY TRAFFIC FOR WORK PERFORMED IN THE MONTHS OF NOVEMBER

ISSUED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY

TRAFFIC MAINTENANCE & CONTROL NOTES (CONTINUED)

13. FOR ALL APPROVED CONSTRUCTION/TRUCK ENTRANCES, THE CONTRACTOR SHALL INSTALL "TRUCKS ENTERING HIGHWAY" (48" X 48" ORANGE AND BLACK) WARNING SIGNS ON 6" X 6" WOODEN GROUND MOUNTED POSTS. THESE SIGNS SHALL BE INSTALLED APPROXIMATELY 500 FEET IN ADVANCE OF ALL APPROVED CONSTRUCTION ACCESS/ENTRANCE POINTS.

14. ANY TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, SIGNS, AND TRAFFIC CONTROL SIGNAL EQUIPMENT DAMAGED OR DESTROYED BY THE CONTRACTOR MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE UNLESS THEIR REMOVAL OR DESTRUCTION IS CALLED FOR BY THE

15. FOR ANY FURTHER INFORMATION ON TRAFFIC MAINTENANCE AND CONTROL REQUIREMENTS, PLEASE CONTACT THE DEPARTMENT OF PUBLIC WORKS, RIGHT OF WAY DIVISION, 810 UNION STREET, ROOM 200, NORFOLK, VA 23510. (757) 664-4696.

16. CONTRACTOR MAY BE REQUESTED BY CITY OF NORFOLK DURING CONSTRUCTION TO DISCUSS TRAFFIC CONTROL PLAN/MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF NORFOLK DEPARTMENT OF PUBLIC WORKS/NORFOLK POLICE DEPARTMENT AT A JOINT TRAFFIC MITIGATION MEETING THAT IS HELD ON TUESDAYS AT 1:30 PM AT NORFOLK CITY HALL, 810 UNION STREET, ROOM 200, NORFOLK, VA.

17. CONTRACTOR IS REQUIRED TO OBTAIN A RIGHT OF WAY PERMIT PRIOR TO ALL LANE OR SIDEWALK CLOSURES WITHIN THE CITY OF NORFOLK. PERMIT SHALL BE OBTAINED THROUGH CITY OF NORFOLK RIGHT OF WAY DIVISION. HTTP:/WWW.NORFOLK.GOV/PUBLICWORKS/PDF/SLS.PDF

18. ONLY ONE RAMP SHALL BE CLOSED AND DETOURED AT A TIME.

TRAFFIC CONTROL & LIGHTING

1. ALL STRIPING IN THE PUBLIC RIGHT-OF-WAY MUST BE OF THERMOPLASTIC MATERIAL FOR LANE LINES, STOP BARS, CROSSWALKS, ETC. ALL LEGENDS AND ARROWS MUST BE OF VDOT APPROVED TYPE B, CLASS VI PREFORMED PAVEMENT MESSAGE MARKING MATERIAL

2. THE CONTRACTOR SHALL SIGN THE BEGINNING AND END TERMINI OF THE PROJECT PER TTC-18.0. IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH THE NOTES AND FIGURES FROM THE VA WORK AREA PROTECTION MANUAL.

3. TEMPORARY LANE WIDTHS SHALL NOT BE LESS THAN 10 FEET.

4. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE COMPLETELY ERADICATED OR

5. ALL LANE SHIFTS SHALL BE ACCOMPANIED BY TEMPORARY OR PERMANENT PAVEMENT MARKINGS

GENERAL MAINTENANCE OF TRAFFIC NOTES

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH VDOT REQUIREMENTS FOR TMP PLANS FOR TYPE B PROJECTS FOR TYPICAL TRAFFIC CONTROL STANDARDS.

2. THE WORK ZONE IS LOCATED ON FOUR RAMPS OFF TIDEWATER DRIVE IN THE CITY OF NORFOLK.

3. MAINTAIN ACCESS TO ALL ENTRANCES AND ALL SIDE STREET INTERSECTIONS FOR EMERGENCY VEHICLES, SCHOOL BUSES, AND SERVICE VEHICLES AT ALL TIMES, EXCEPT DURING THE APPROVED DETOUR.

4. NO CONSTRUCTION MATERIALS SHALL BE STOCKPILED WITHIN THE "CLEAR ZONE" AS DEFINED IN THE FEDERAL HIGHWAY ADMINISTRATION, FHWA. "ROADSIDE DESIGN GUIDE". ALSO, NO EQUIPMENT OR MACHINERY SHALL BE LEFT PARKED OR UNATTENDED WITHIN THE CLEAR ZONE WHILE WORK IS NOT BEING PERFORMED.

5. IT IS NOT THE INTENT OF THE TRAFFIC MANAGEMENT PLANS TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH STAGE. BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC.

SPECIAL DETAILS

1. ALL AREAS EXCAVATED BELOW EXISTING PAVEMENT SURFACES AT THE CONCLUSION OF EACH WORKDAY SHALL BE BACKFILLED WITH AGGREGATE BASE MATERIAL TO FORM AN APPROXIMATE 3:1 WEDGE AGAINST THE EXISTING PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST FOR PLACING, MAINTAINING, AND REMOVING THE 3:1 WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. SEE "FILLET OF MATERIAL DETAIL" ON THIS SHEET.

PUBLIC COMMUNICATIONS PLAN

1. EMERGENCY CONTACT INFORMATION: CALL 911 FOR NORFOLK POLICE, HAZ-MAT, ETC.

2. APPROPRIATE SIGNAGE SHALL BE INSTALLED IN THE PROJECT AREA AS ADVANCE WARNING.

3. CITY OF NORFOLK SHALL ISSUE TRAFFIC ADVISORY ANNOUNCEMENTS REGARDING ANY CHANGES IN TRAFFIC PATTERNS AND DETOURS.

TRANSPORTATION OPERATIONS PLAN

1. THE FOLLOWING IS A LIST OF LOCAL EMERGENCY CONTACT AGENCIES: CITY OF NORFOLK POLICE DISPATCH EMERGENCY DISPATCH CENTER 911 HAZ-MAT 911

2. PROCEDURES TO RESPOND TO TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE:

CONTRACTOR TO NOTIFY EMERGENCY DISPATCH CENTER 911 AND CONSTRUCTION INSPECTORS.

DEPENDING UPON SEVERITY OF INCIDENT, CONTRACTOR MAY HAVE TO CEASE WORK.

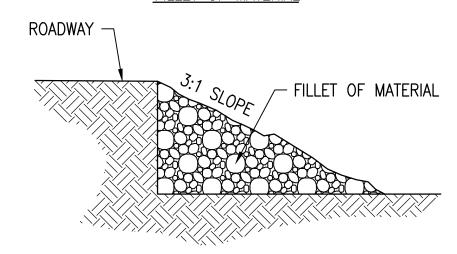
UPON ARRIVAL ON SCENE, POLICE TO DETERMINE RESPONSE NECESSARY TO ALLOW TRAVELING PUBLIC AROUND INCIDENT.

CONSTRUCTION INSPECTOR TO NOTIFY DEPARTMENT OF PUBLIC WORKS OF INCIDENT AND TAKE PICTURES AS NECESSARY - ESPECIALLY PICTURES OF CONTRACTOR'S WORK ZONE AND SIGNAGE.

3. THE POLICE WILL TAKE CONTROL OF THE INCIDENT AND DIRECT ITS CLEARING AND RESTORATION TO NORMAL TRAFFIC CONDITIONS. IF THE INCIDENT HAS INJURIES OR IS A HAZ-MAT, THE FIRE DEPARTMENT WILL CONTROL THE INCIDENT.

4. THE POLICE REPORT OF THE INCIDENT WILL BE REVIEWED BY THE DEPARTMENT OF PUBLIC WORKS TO DETERMINE IF ANY MODIFICATIONS OF THE TEMPORARY TRAFFIC CONTROL PLAN ARE NECESSARY. IF IT IS DETERMINED THAT IT IS NECESSARY TO ALTER THE PLAN, THEN A MEETING SHALL BE CALLED WITH THE CONTRACTOR. ENGINEERING PROJECT PERSONNEL, TRAFFIC SAFETY REPRESENTATIVES, AND THE POLICE (IF NECESSARY) TO DISCUSS MODIFICATION AND IMPLEMENTATION OF AN IMPROVED TRAFFIC CONTROL PLAN.

FILLET OF MATERIAL



1. THIS DETAIL SHALL BE USED DURING ANY CONSTRUCTION IN WHICH OPEN ROADWAY CUT IS BEING USED FOR TRAFFIC ADJACENT TO EXISTING ROADWAY WITHIN THE CITY RIGHT OF WAY.

2. AT NIGHT OR DURING NON- CONSTRUCTION HOURS, ALL AREAS EXCAVATED BELOW EXISTING PAVEMENT SURFACES SHALL BE BACKFILLED WITH AGGREGATE BASE MATERIAL TO FORM AN APPROXIMATE 3:1 (H:V) WEDGE AGAINST THE EXISTING PAVEMENT SURFACE.

SEQUENCE OF CONSTRUCTION

1. ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO CONSTRUCTION

2. MAINTENANCE OF TRAFFIC SHALL BE PROVIDED AS APPROVED BY CITY OF NORFOLK DEPARTMENT OF PUBLIC WORKS, RIGHT OF WAY DIVISION.

CLEAR AND ROUGH GRADE AREA OF CONSTRUCTION.

4. INSTALL STORM DRAINAGE PIPE AND STRUCTURES AS SHOWN

ON SHEETS C7 AND C8.

INSTALL CURB.

CONSTRUCT PAVEMENT SECTION

INSTALL GUARDRAIL, AND SIDEWALK FINE GRADE AND SEED ALL DISTURBED AREAS.

REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER SITE IS STABILIZED.

Typical Traffic Control Work Operation in the Vicinity of an Exit Ramp (Figure TTC-37.0)

NOTES

Page 6H-80

1. Sign spacing distance should be 1300'-1500' for Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed

2. When flaggers are used, care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.

Standard: 3. On divided highways having a median wider than 8', right and left sign assemblies shall be

4. A temporary EXIT (E5-V1) sign shall be located in the temporary gore. For better visibility, it shall be mounted a minimum of 7 feet from the pavement surface to the bottom of the sign.

5. Taper length (L) and channelizing device spacing shall be:

Speed Limit	Lane Width (Feet)				
(mph)	9	10	11	12	
25	95	105	115	125	
30	135	150	165	180	
35	185	205	225	245	
40	240	270	295	320	
45	405	450	495	540	
50	450	500	550	600	
55	495	550	605	660	
60	540	600	660	720	
65	585	650	715	780	
70	630	700	770	840	

Shoulder Taper = 1/3 L Minimum

1 4:	Speed Limit (mph)			
Location	0 - 35	36 +		
Transition Spacing	20'	40'		
Travelway Spacing	40'	80'		
Construction Access*	80'	120'		

August 2011

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

6. The minimum distance between the end of the taper and the beginning of the off ramp shall be

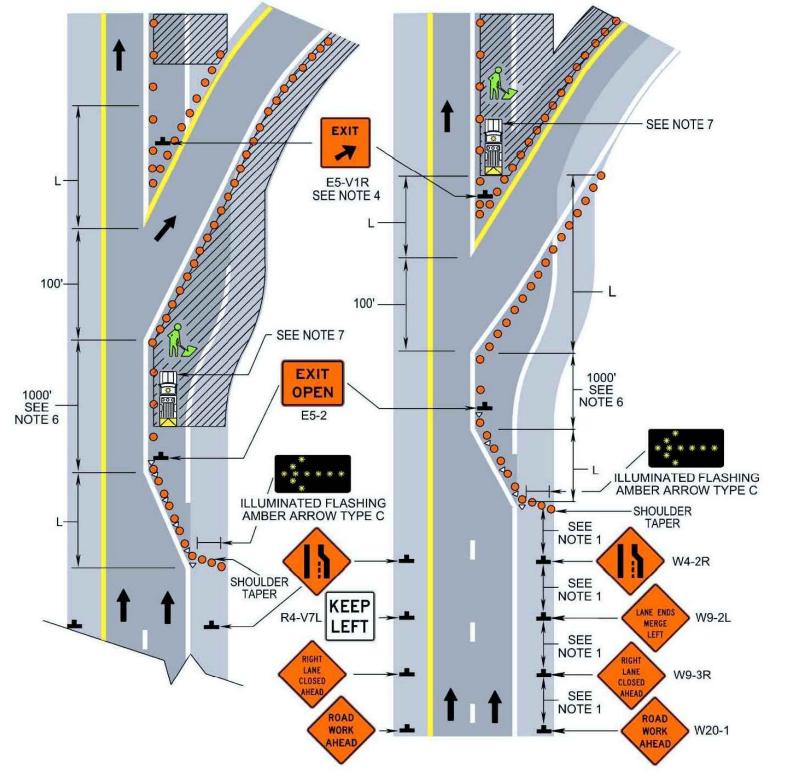
7. A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or equipped with at least one high intensity rotating, oscillating, or amber strobe light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used

8. The guide signs should indicate that the ramp is open, and where the temporary ramp is located. However, if the ramp is closed, guide signs should indicate that the ramp is closed.

9. When the exit ramp is closed, a black on orange EXIT CLOSED (E5-2a) sign should be placed diagonally across the interchange/intersection guide signs.

10. An END ROAD WORK (G20-2 (V)) sign should be placed 500' past the temporary traffic control devices on the off ramp.

11. The temporary EXIT sign placed in the temporary gore may be either black on orange or white on

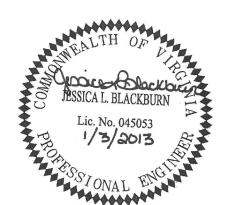


WORK OPERATION IN THE VICINITY OF AN EXIT RAMP (TTC-37.0)

NO SCALE

CLARK NEXSEN Architecture & Engineering

> 6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757-455-5800 FAX 757-455-5638 WWW.CLARKNEXSEN.COM



UBLIC VIRGIN

CN NO: 4183 DATE: 1/03/13 DESIGN: JLB DRAWN: BJL REVIEW: CAR

BRIDGE

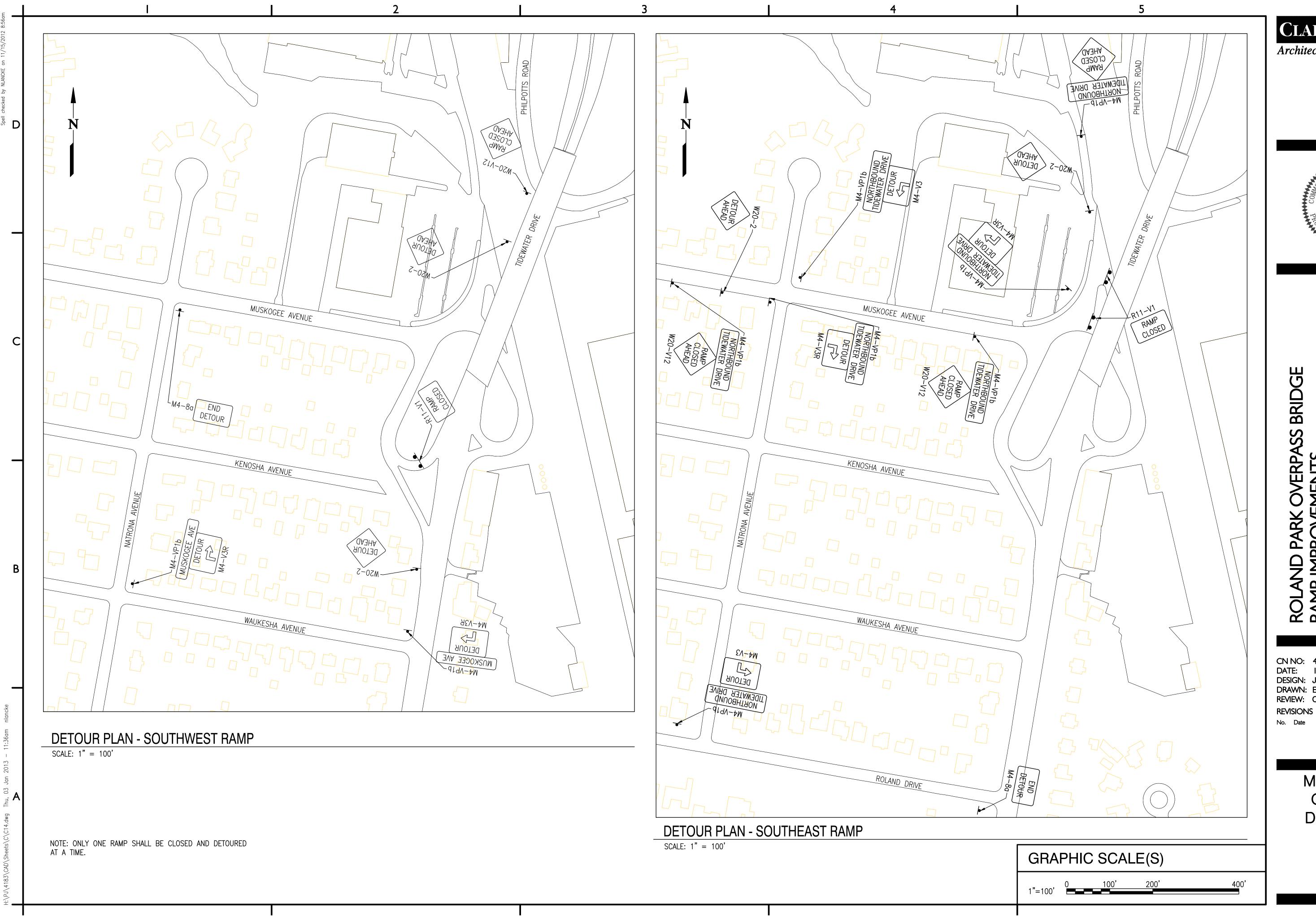
SS

R

 $\overline{\Pi}$

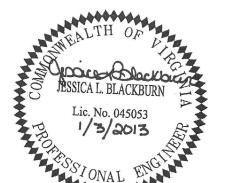
REVISIONS No. Date

> **MAINTENANCE** OF TRAFFIC NOTES & **DETAILS**



CLARK+NEXSEN Architecture & Engineering

> 6160 KEMPSVILLE CIRCLE NORFOLK, VIRGINIA 23502 757-455-5800 FAX 757-455-5638 WWW.CLARKNEXSEN.COM



SS BRIDGE ERP,

CN NO: 4183
DATE: 1/03/13
DESIGN: JLB
DRAWN: ENB
REVIEW: CAR

MAINTENANCE OF TRAFFIC -**DETOUR PLAN**

DEPARTMENT OF PUBLIC CITY OF NORFOLK, VIRGIN

